

### Anti-GFP antibody ab6556

★★★★★ [61 Abreviews](#) [1204 References](#) [画像数 3](#)

#### 製品の概要

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 製品名      | Anti-GFP antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 製品の詳細    | Rabbit polyclonal to GFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 由来種      | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 特異性      | <b>GFP antibody (ab6556) is reactive against all variants of <i>Aequorea victoria</i> GFP such as S65T-GFP, RS-GFP, YFP, CFP, RFP and EGFP.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| アプリケーション | <b>適用あり:</b> IHC-P, Electron Microscopy, ICC, IP, Flow Cyt, IHC-Fr, WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 種交差性     | <b>交差種:</b> Species independent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 免疫原      | Recombinant full length protein corresponding to GFP.<br>Database link: <a href="#">P42212</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 特記事項     | <p>Please note that a mistake was made in reference 4 (Mesaeli et.al., J. Cell. Biol. 1999 Mar 8;144(5):857-68). The antibody used for immunohistochemistry on paraformaldehyde fixed tissues was the crude serum version of this antibody (Abcam <a href="#">ab290</a>) and not Clontech's monoclonal as stated. This product is supplied in 25% glycerol. During freezeing and thawing some phase separation might occur - Please ensure that the solution is mixed thoroughly but GENTLY before use.</p> <p>This antibody (ab6556) is the purified version of our best-selling rabbit polyclonal to GFP (<a href="#">ab290</a>). It has been developed specifically for use in applications requiring a high titre and specificity with minimum background such as immuno-electron microscopy.</p> <p>This anti-GFP antibody recognizes the enhanced form of GFP as well.</p> <p>Abcam recommended secondaries - Goat Anti-Rabbit HRP (<a href="#">ab205718</a>) and Goat Anti-Rabbit Alexa Fluor® 488 (<a href="#">ab150077</a>).</p> <p>See other <a href="#">anti-rabbit secondary antibodies</a> that can be used with this antibody.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

#### 製品の特性

|           |                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 製品の状態     | Liquid                                                                                                                                                  |
| 保存方法      | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.                        |
| バッファー     | pH: 7.40<br>Constituents: 0.79% Tris HCl, 25% Glycerol                                                                                                  |
| 精製度       | Immunogen affinity purified                                                                                                                             |
| 特記事項 (精製) | This antibody is an affinity purified rabbit anti-GFP antibody purified on an affinity chromatography column made with highly purified recombinant GFP. |
| ポリ/モノ     | ポリクローナル                                                                                                                                                 |
| アイソタイプ    | IgG                                                                                                                                                     |

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、**次のテスト済みアプリケーションにおけるab6556の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション            | Abreviews  | 特記事項                                                                         |
|---------------------|------------|------------------------------------------------------------------------------|
| IHC-P               | ★★★★★ (11) | Use at an assay dependent concentration.                                     |
| Electron Microscopy |            | 1/5000.                                                                      |
| ICC                 | ★★★★★ (1)  | 1/2000.                                                                      |
| IP                  | ★★★★☆ (3)  | Use at an assay dependent concentration.                                     |
| Flow Cyt            | ★★★★★ (1)  | Use at an assay dependent concentration.                                     |
| IHC-Fr              | ★★★★☆ (4)  | Use at an assay dependent concentration.                                     |
| WB                  | ★★★★★ (27) | Use at an assay dependent concentration. Predicted molecular weight: 27 kDa. |

## ターゲット情報

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| 関連性 | <p><b>Function:</b> Energy-transfer acceptor. Its role is to transduce the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. Fluoresces in vivo upon receiving energy from the Ca<sup>2+</sup>-activated photoprotein aequorin.</p> <p><b>Subunit structure:</b> Monomer.</p> <p><b>Tissue specificity:</b> Photocytes.</p> <p><b>Post-translational modification:</b> Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to didehydrotyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.</p> |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

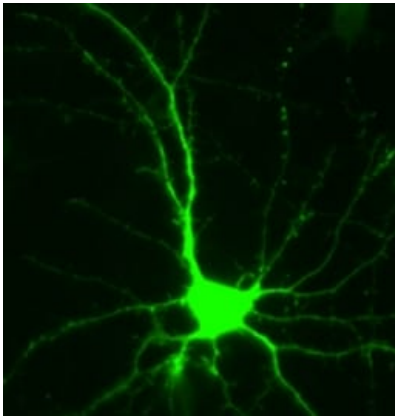
**Biotechnological use:** Green fluorescent protein has been engineered to produce a vast number of variously colored mutants, fusion proteins, and biosensors. Fluorescent proteins and its mutated allelic forms, blue, cyan and yellow have become a useful and ubiquitous tool for making chimeric proteins, where they function as a fluorescent protein tag. Typically they tolerate N- and C-terminal fusion to a broad variety of proteins. They have been expressed in most known cell types and are used as a noninvasive fluorescent marker in living cells and organisms. They enable a wide range of applications where they have functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions. Can also be used as a molecular thermometer, allowing accurate temperature measurements in fluids. The measurement process relies on the detection of the blinking of GFP using fluorescence correlation spectroscopy.

**Sequence similarities:** Belongs to the GFP family.

**Biophysicochemical properties:** Absorption: Abs(max)=395 nm

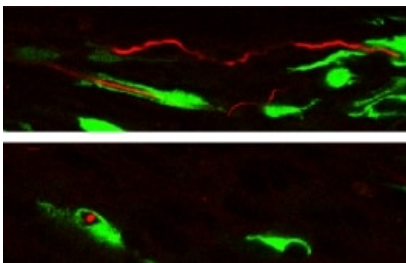
Exhibits a smaller absorbance peak at 470 nm. The fluorescence emission spectrum peaks at 509 nm with a shoulder at 540 nm.

## 画像



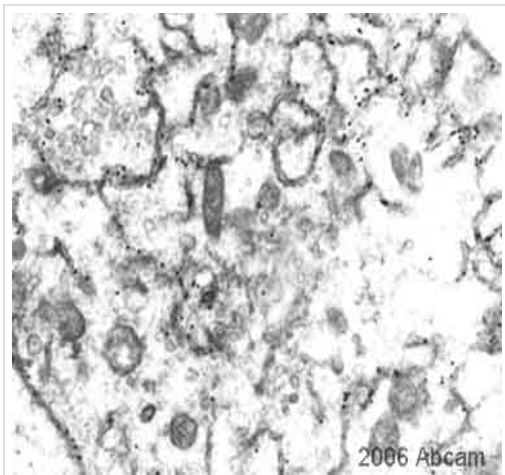
Immunocytochemistry - Anti-GFP antibody (ab6556)

This image shows a single primary hippocampal neuron from a primary culture overexpressing GFP stained with ab6556 at a dilution of 1/2000. This picture was kindly supplied as part of the review submitted by one of our customers.



Immunocytochemistry - Anti-GFP antibody (ab6556)

This image shows IF using GFP-expressing glial cells (green) transplanted into lesioned rat spinal cord. This was detected using ab6556 anti-GFP antibody and a FITC conjugated secondary antibody. Axons are labelled red by an antibody to neurofilament-200 and a rhodamine secondary. ab6556 reveals the morphology of the transplanted cells to such an extent that their close interactions with axons are obvious. The top picture shows an optical section from a confocal microscope scan showing how a GFP cell wraps around a branched axon travelling longitudinally. The bottom picture consists of an optical section from another confocal scan showing a GFP cell enveloping an axon in the transverse plane. Review by Andrew Toft submitted 19 May 2004.



Electron Microscopy - Anti-GFP antibody (ab6556)

Specific labeling of a Trk-GFP fusion protein being synthesized on ER in sympathetic neurons infected with an adenovirus carrying the construct. The gold is associated with the ER membranes. This was done using a 1/5000 dilution of affinity purified antibody (ab6556). The tissue section was fixed and embedded using durcupan resin.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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