

Anti-GFP antibody ab5449

★★★★★ [1 Abreviews](#) [14 References](#) [画像数 2](#)

製品の概要

| | |
|--------------|---|
| 製品名 | Anti-GFP antibody |
| 製品の詳細 | Goat polyclonal to GFP |
| 由来種 | Goat |
| 特異性 | Reactive against all variants of <i>Aequorea victoria</i> GFP such as S65T-GFP, RS-GFP, YFP and EGFP. |
| アプリケーション | 適用あり: WB, IP |
| 種交差性 | 交差種: Species independent |
| 免疫原 | Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers. |
| ポジティブ・コントロール | Pure GFP protein, or cells known to overexpress GFP. |
| 特記事項 | <p>Protein A will not bind goat IgG, so use alternates (eg. protein G) in IP with this antibody. This antibody is available in an affinity purified form as ab5450.</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&As</p> |

製品の特性

| | |
|--------|---|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| バッファー | Preservative: 0.05% Sodium azide |
| 精製度 | Whole antiserum |
| 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ab5449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 |
|----------|-----------|--------------------------------------|
| WB | ★★★★★ (1) | 1/5000 - 1/20000. |
| IP | | Use 0.5µl for 10 ⁶ cells. |

ターゲット情報

関連性

Function: 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 Ca²⁺-activated photoprotein aequorin.

Subunit structure: Monomer.

Tissue specificity: Photocytes.

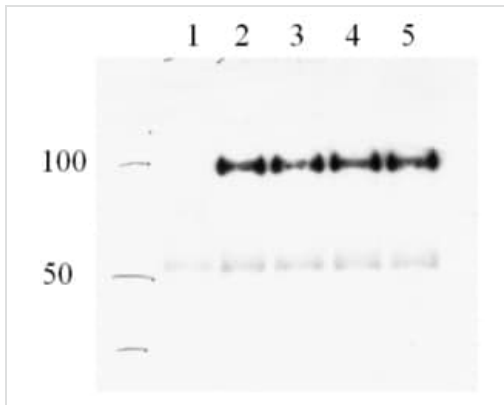
Post-translational modification: Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to didehydrotyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.

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



Western blot - Anti-GFP antibody (ab5449)

Lane 1 : parental YTS cells (negative control)

Lanes 2-5 : YTS cells transfected with KIR-EGFP (mw 88 kD)

KIR-EGFP IP's with Goat polyclonal to GFP (ab5449) using 0.1 ul for 2×10^6 cells. KIR-EGFP detected with a mouse monoclonal to KIR receptor (Borszcz et al EGI 2003, 33: 1084).

Lane 1 : parental YTS cells (negative control) Lanes 2-5 : YTS cells transfected with KIR-EGFP (mw 88 kD) KIR-EGFP IP's with Goat polyclonal to GFP (ab5449) using 0.1 ul for 2×10^6 cells. KIR-EGFP detected with a mouse monoclonal to KIR receptor (Borszcz et al EGI 2003, 33: 1084).



Western blot - Anti-GFP antibody (ab5449)

5 ng GFP on PVDF membrane QC. Goat polyclonal to GFP (ab5449) used at dilutions of:

Lane 1 : 1/2500

Lane 2 : 1/5000

Lane 3 : 1/10,000

Lane 4 : 1/20,000

5 ng GFP on PVDF membrane QC. Goat polyclonal to GFP (ab5449) used at dilutions of: Lane 1 : 1/2500 Lane 2 : 1/5000 Lane 3 : 1/10,000 Lane 4 : 1/20,000

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

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