


### Anti-RUNX2 antibody [2B9] ab76956

★★★★☆ **8 Abreviews** **275 References** **画像数 4**

#### 製品の概要

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>製品名</b>          | Anti-RUNX2 antibody [2B9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>製品の詳細</b>        | Mouse monoclonal [2B9] to RUNX2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>由来種</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>アプリケーション</b>     | <b>適用あり:</b> ICC/IF, Flow Cyt, WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>種交差性</b>         | <b>交差種:</b> Rat, Human, Recombinant fragment<br><b>交差が予測される動物種:</b> Horse, Dog, Pig, Chimpanzee, Rhesus monkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>免疫原</b>          | Recombinant fragment: NPRPSLNSAP SPFNPQGQSQ ITDPRQAQSS PPWSYDQSYYP SYLSQMTSPS IHSTTPLSST RGTGLPAITD VPRRISDDDT ATSDFCLWPS TLSKKSQAGA, corresponding to amino acids 251-351 of Human RUNX2 (NP_004339) with tag.<br><a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ポジティブ・コントロール</b> | PC12 cell lysate;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>特記事項</b>         | <p>This product was changed from ascites to tissue culture supernatant on 15 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</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

|                  |                                                                                            |
|------------------|--------------------------------------------------------------------------------------------|
| <b>製品の状態</b>     | Liquid                                                                                     |
| <b>保存方法</b>      | Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| <b>バッファー</b>     | pH: 7.40<br>Constituent: 100% PBS                                                          |
| <b>精製度</b>       | Protein A purified                                                                         |
| <b>特記事項 (精製)</b> | Purified from Cell Culture supernatant.                                                    |

|        |         |
|--------|---------|
| ポリ/モノ  | モノクローナル |
| クローン名  | 2B9     |
| アイソタイプ | IgG2a   |
| 軽鎖の種類  | kappa   |

## 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ab76956の使用に適用されます**

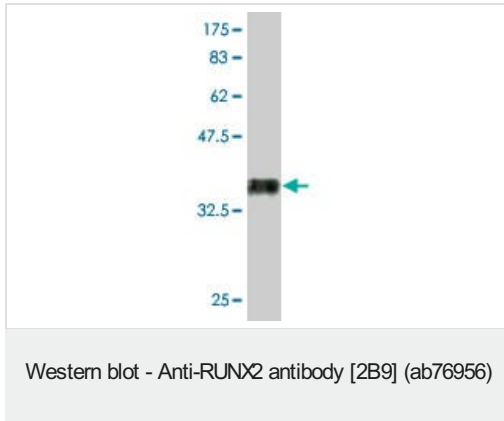
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

| アプリケーション | Abreviews | 特記事項                                                                                                                                                |
|----------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| ICC/IF   | ★★★★☆ (1) | Use at an assay dependent concentration.                                                                                                            |
| Flow Cyt |           | Use at an assay dependent concentration.<br><b>ab170191</b> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody. |
| WB       | ★★★★☆ (2) | Use at an assay dependent concentration. Predicted molecular weight: 57 kDa.                                                                        |

## ターゲット情報

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 機能    | Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis. Essential for the maturation of osteoblasts and both intramembranous and endochondral ossification. CBF binds to the core site, 5'-PYGPYGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, osteocalcin, osteopontin, bone sialoprotein, alpha 1(I) collagen, LCK, IL-3 and GM-CSF promoters (By similarity). Inhibits MYST4-dependent transcriptional activation.                                                                                    |
| 組織特異性 | Specifically expressed in osteoblasts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 関連疾患  | Defects in RUNX2 are the cause of cleidocranial dysplasia (CLCD) [MIM:119600]; also known as cleidocranial dysostosis (CCD). CLCD is an autosomal dominant skeletal disorder with high penetrance and variable expressivity. It is due to defective endochondral and intramembranous bone formation. Typical features include hypoplasia/aplasia of clavicles, patent fontanelles, wormian bones (additional cranial plates caused by abnormal ossification of the calvaria), supernumerary teeth, short stature, and other skeletal changes. In some cases defects in RUNX2 are exclusively associated with dental anomalies. |
| 配列類似性 | Contains 1 Runt domain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ドメイン  | A proline/serine/threonine rich region at the C-terminus is necessary for transcriptional activation of target genes and contains the phosphorylation sites.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 翻訳後修飾 | Phosphorylated; probably by MAP kinases (MAPK) (By similarity). Isoform 3 is phosphorylated on Ser-340.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 細胞内局在 | Nucleus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 画像



Anti-RUNX2 antibody [2B9] (ab76956) at 1 µg/ml + Recombinant tagged human RUNX2 fragment at 0.2 µg

**Secondary**

Goat anti-Mouse IgG (H&L)-HRP at 1/5000 dilution

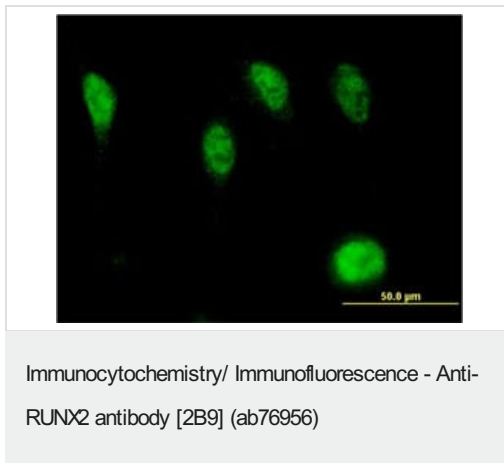
**Predicted band size:** 57 kDa

**Observed band size:** 37 kDa

Western blot against tagged recombinant protein immunogen.

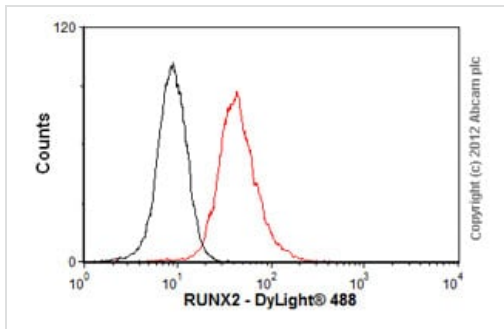
Predicted band size of immunogen is 37 kDa.

This image was generated using the ascites version of the product.



ab76956 at 10µg/ml staining RUNX2 in HeLa cells by Immunofluorescence.

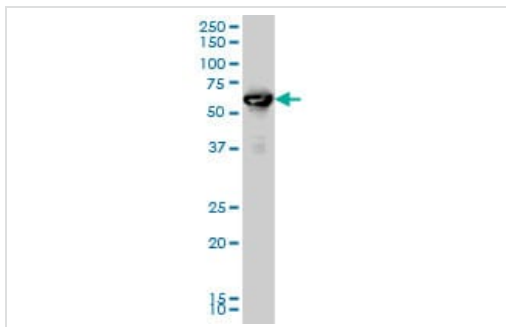
This image was generated using the ascites version of the product.



Overlay histogram showing Saos 2 cells stained with ab76956 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab76956, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 2µg/1x10<sup>6</sup> cells) used under the same conditions.

Acquisition of >5,000 events was performed.

This image was generated using the ascites version of the product.



Western blot - Anti-RUNX2 antibody [2B9] (ab76956)

Anti-RUNX2 antibody [2B9] (ab76956) at 1 µg/ml + PC12 cell lysate at 25 µg

**Secondary**

Goat anti-Mouse IgG (H&L)-HRP at 1/2500 dilution

**Predicted band size:** 57 kDa

**Observed band size:** 56 kDa

This image was generated using the ascites version of the product.

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

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