




Anti-RUNX2 antibody [2B9] ab76956

★★★★★ **8 Abreviews** **275 References** **4 图像**

概述

产品名称	Anti-RUNX2抗体[2B9]
描述	小鼠单克隆抗体[2B9] to RUNX2
宿主	Mouse
经测试应用	适用于: ICC/IF, Flow Cyt, WB
种属反应性	与反应: Rat, Human, Recombinant fragment 预测可用于: Horse, Dog, Pig, Chimpanzee, Rhesus monkey 
免疫原	Recombinant fragment: NPRPSLNSAP SPFNPQGQSQ ITDPRQAQSS PPWSYDQSYPSYLSQMTSPS IHSTTPLSST RGTGLPAITD VPRRISDDDT ATSDFCLWPS TLSKKSQAGA, corresponding to amino acids 251-351 of Human RUNX2 (NP_004339) with tag.  Run BLAST with ExPASy  Run BLAST with NCBI
阳性对照	PC12 cell lysate;
常规说明	<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&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Constituent: 100% PBS
纯度	Protein A purified
纯化说明	Purified from Cell Culture supernatant.

克隆	单克隆
克隆编号	2B9
同种型	IgG2a
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab76956于以下的经测试应用

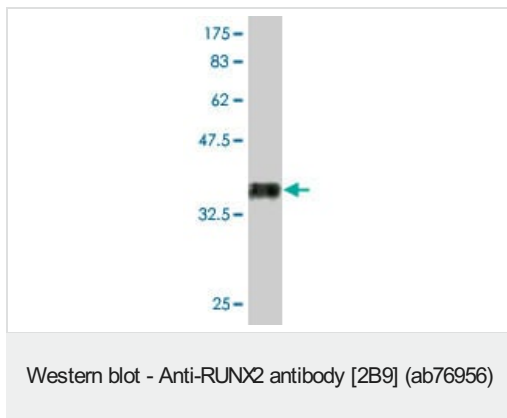
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170191 - 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.

靶标

功能	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.
组织特异性	Specifically expressed in osteoblasts.
疾病相关	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.
序列相似性	Contains 1 Runt domain.
结构域	A proline/serine/threonine rich region at the C-terminus is necessary for transcriptional activation of target genes and contains the phosphorylation sites.
翻译后修饰	Phosphorylated; probably by MAP kinases (MAPK) (By similarity). Isoform 3 is phosphorylated on Ser-340.
细胞定位	Nucleus.

图片



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

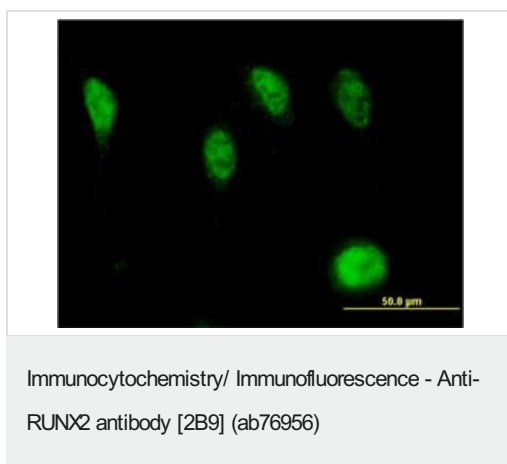
Predicted band size: 57 kDa

Observed band size: 37 kDa

Western blot against tagged recombinant protein immunogen.

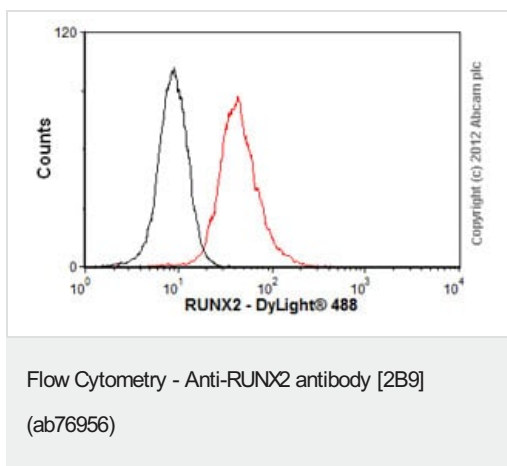
Predicted band size of immunogen is 37 kDa.

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



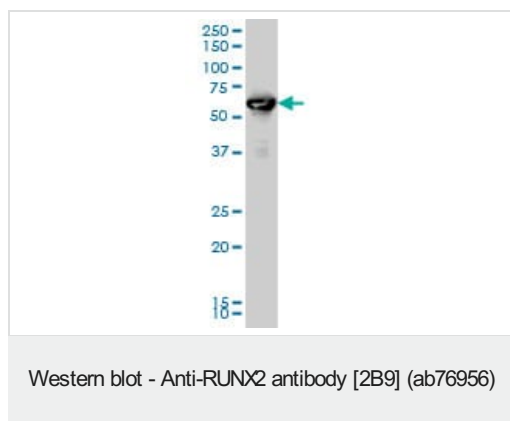
ab76956 at 10µg/ml staining RUNX2 in HeLa cells by Immunofluorescence.

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/1x10⁶ 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/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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



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.

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