

Anti-RUNX2 antibody ab114133

★★★★★ [1 Abreviews](#) [8 References](#) [2 图像](#)

概述

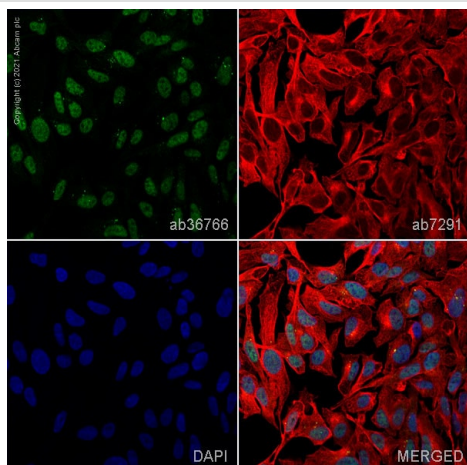
产品名称	Anti-RUNX2抗体
描述	兔多克隆抗体to RUNX2
宿主	Rabbit
经测试应用	适用于: ICC, WB
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Rabbit, Chimpanzee, Macaque monkey, Gorilla, Chinese hamster, Orangutan 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Saos-2 whole cell lysate. ICC: U2OS cell line.
常规说明	<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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
克隆	Immunogen affinity purified 多克隆

同种型	IgG										
应用	<p>The Abpromise guarantee Abpromise™承诺保证使用ab114133于以下的经测试应用</p> <p>“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。</p> <table> <tr> <th>应用</th><th>Ab评论</th><th>说明</th></tr> <tr> <td>ICC</td><td></td><td>Use a concentration of 5 µg/ml.</td></tr> <tr> <td>WB</td><td>★★★★★ (1)</td><td>Use a concentration of 1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 56 kDa).</td></tr> </table>		应用	Ab评论	说明	ICC		Use a concentration of 5 µg/ml.	WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 56 kDa).
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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.										

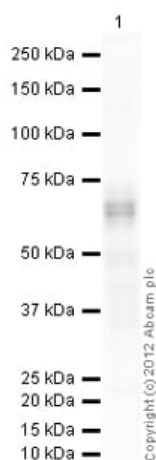
图片



Immunocytochemistry - Anti-RUNX2 antibody
(ab114133)

ab114133 staining RUNX2 in U2OS cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab114133 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Western blot - Anti-RUNX2 antibody (ab114133)

Anti-RUNX2 antibody (ab114133) at 1 µg/ml + Saos 2 (Human epithelial-like osteosarcoma cell line) Whole Cell Lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 56 kDa

Observed band size: 65 kDa

Additional bands at: 64 kDa (possible isoform)

Exposure time: 1 minute

The predicted molecular weight of RUNX2 is 56 kDa (SwissProt), however we expect to observe a banding pattern around 65 kDa. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.

This antibody was raised against an immunogen that is predicted to recognize isoforms 1,2 and 3 of RUNX2. The predicted molecular weights of isoforms 1,2 and 3 are 56, 55 and 54 kDa respectively.

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