

Anti-RUNX3 antibody [R3-5G4] ab40278

KO 評価済

★★★★★ **2 Abreviews** **30 References** 画像数 4

製品の概要

製品名	Anti-RUNX3 antibody [R3-5G4]
製品の詳細	Mouse monoclonal [R3-5G4] to RUNX3
由来種	Mouse
アプリケーション	適用あり: Flow Cyt (Intra), WB, IHC-P
種交差性	交差種: Human
免疫原	Recombinant fragment corresponding to Human RUNX3 aa 150 to the C-terminus (C terminal).
ポジティブ・コントロール	ab40278 gave a positive result in the following whole cell lysates: Jurkat (Human T cell lymphoblast-like cell line) Raji (Human Burkitt's lymphoma cell line) SW480 (Human colon adenocarcinoma cell line)
特記事項	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</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. 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	Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	R3-5G4

アプリケーション

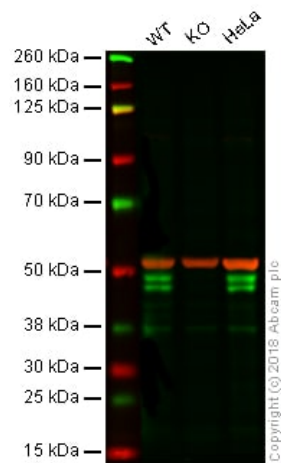
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab40278の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa).
IHC-P	★☆☆☆☆ (1)	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ターゲット情報

機能	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, lck, IL-3 and GM-CSF promoters.
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.
翻訳後修飾	Phosphorylated on tyrosine residues by SRC. Phosphorylated by LCK and FYN.
細胞内局在	Nucleus. Cytoplasm. The tyrosine phosphorylated form localizes to the cytoplasm.

画像



Western blot - Anti-RUNX3 antibody [R3-5G4] (ab40278)

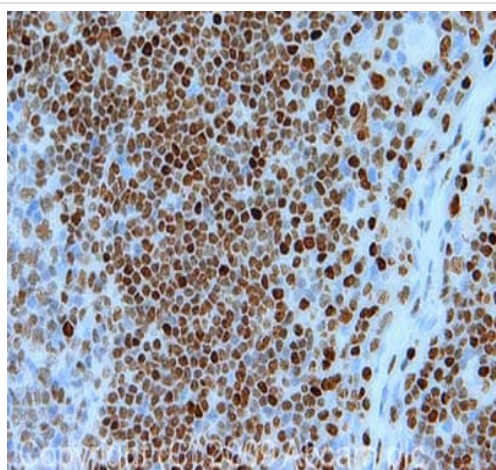
Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: RUNX3 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

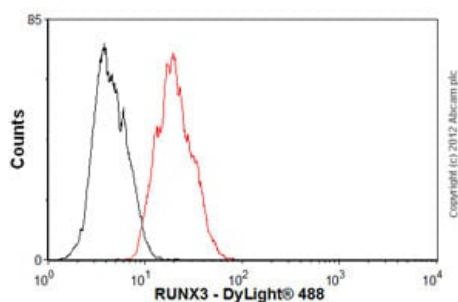
Lanes 1 - 3: Merged signal (red and green). Green - ab40278 observed at 44 kDa. Red - loading control, **ab176560**, observed at 50 kDa.

ab40278 was shown to specifically react with RUNX3 in wild-type HAP1 cells as signal was lost in RUNX3 knockout cells. Wild-type and RUNX3 knockout samples were subjected to SDS-PAGE. ab40278 and **ab176560** (Rabbit anti-alpha Tubulin loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed **ab216777** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



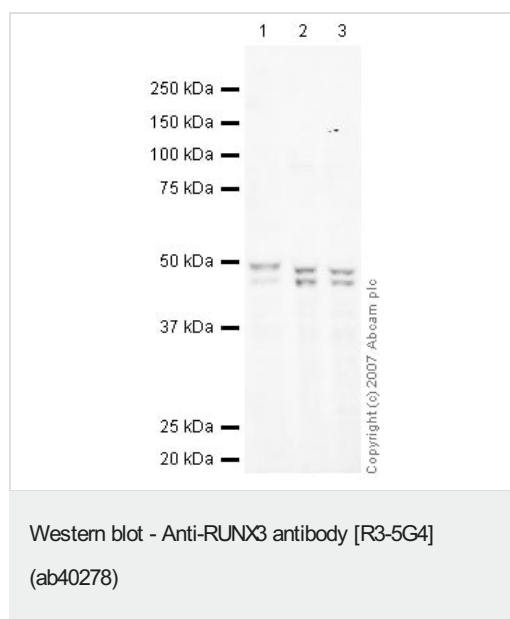
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RUNX3 antibody [R3-5G4] (ab40278)

IHC image of RUNX3 staining in human lymphoma FFPE section, performed on a Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab40278, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow Cytometry (Intracellular) - Anti-RUNX3 antibody [R3-5G4] (ab40278)

Overlay histogram showing HEK293 cells stained with ab40278 (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 (ab40278, 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 IgG1 [ICIGG1] (**ab91353**, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.



All lanes : Anti-RUNX3 antibody [R3-5G4] (ab40278) at 1 µg/ml

Lane 1 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 2 : Raji (Human Burkitt's lymphoma cell line) Whole Cell Lysate

Lane 3 : SW480 whole cell lysate ([ab3957](#))

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : IRDye 680 Conjugated Rabbit Anti-Mouse IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 44 kDa

Additional bands at: 46 kDa (possible isoform)

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