abcam

Product datasheet

Anti-RUNX3 antibody [2B3] ab135248

KO VALIDATED

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Overview

Product name	Anti-RUNX3 antibody [2B3]
Description	Mouse monoclonal [2B3] to RUNX3
Host species	Mouse
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant fragment, corresponding to amino acids 186-252 of Human RUNX3 expressed in E. Coli.
Positive control	Human RUNX3 recombinant protein; HEK293 cell lysate transfected with RUNX3 (aa186-252)-hIgGFc; NIH 3T3 cells; Human cervical cancer tissue.
General notes	This product was changed from ascites to supernatant. Lot no's high than GR206339-20 are from Tissue Culture Supernatant 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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 99% PBS 0.5% protein stabilizer
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.

Clonality	Monoclonal
Clone number	2B3
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab135248 in the following tested applications.

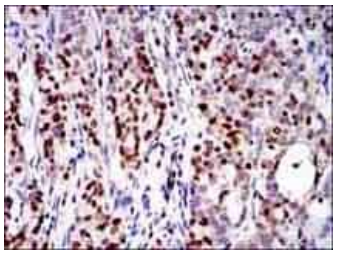
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		1/500 - 1/2000. Predicted molecular weight: 44 kDa.
IHC-P	★★★★★ (1)	1/200 - 1/1000.
Flow Cyt	★★★★★ (1)	1/200 - 1/400. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

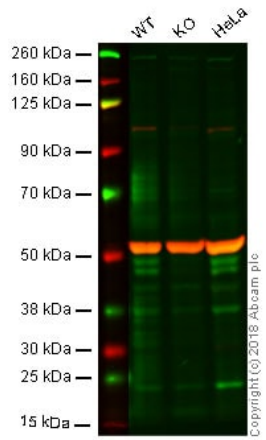
Function	CBF binds to the core site, 5'-PYGPYGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, lck, IL-3 and GM-CSF promoters.
Sequence similarities	Contains 1 Runt domain.
Domain	A proline/serine/threonine rich region at the C-terminus is necessary for transcriptional activation of target genes.
Post-translational modifications	Phosphorylated on tyrosine residues by SRC. Phosphorylated by LCK and FYN.
Cellular localization	Nucleus. Cytoplasm. The tyrosine phosphorylated form localizes to the cytoplasm.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RUNX3 antibody [2B3] (ab135248)

Immunohistochemical analysis of Paraffin-embedded Human cervical cancer tissue labelling RUNX3 with ab135248 at 1/200 dilution followed by DAB staining.

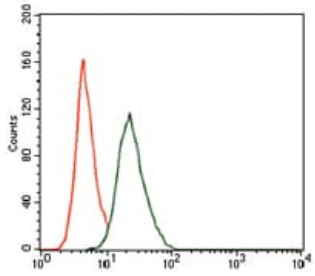


Western blot - Anti-RUNX3 antibody [2B3] (ab135248)

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)

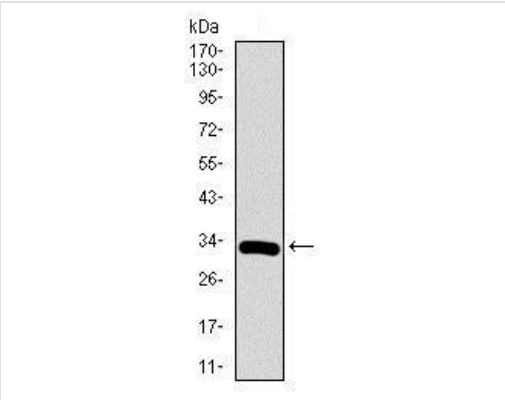
Lanes 1 - 3: Merged signal (red and green). Green - ab135248 observed at 44 kDa. Red - loading control, **ab176560**, observed at 50 kDa.

ab135248 was shown to recognize RUNX3 in wild-type HAP1 cells as signal was lost at the expected MW in RUNX3 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and RUNX3 knockout samples were subjected to SDS-PAGE. Ab135248 and **ab176560** (Rabbit anti-alpha Tubulin loading control) were incubated overnight at 4°C at 1/500 dilution 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.



Flow Cytometry - Anti-RUNX3 antibody [2B3] (ab135248)

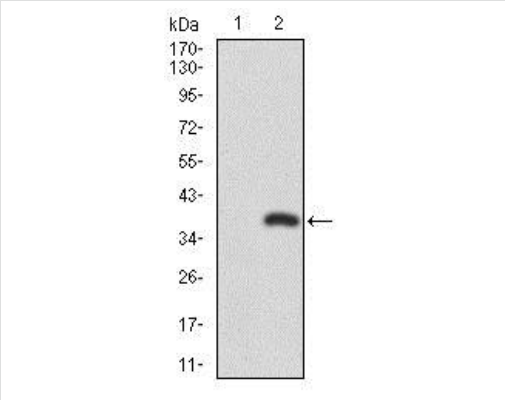
Flow cytometric analysis of NIH 3T3 cells labelling RUNX3 with ab135248 at 1/200 dilution (green). Negative control (red).



Western blot - Anti-RUNX3 antibody [2B3] (ab135248)

Anti-RUNX3 antibody [2B3] (ab135248) at 1/500 dilution + Recombinant Human RUNX3 protein

Predicted band size: 44 kDa



Western blot - Anti-RUNX3 antibody [2B3] (ab135248)

All lanes : Anti-RUNX3 antibody [2B3] (ab135248) at 1/500 dilution

Lane 1 : HEK293 cell lysate, non-transfected
Lane 2 : HEK293 cell lysate, transfected with RUNX3 (amino acids 186-252)-hIgGFc

Predicted band size: 44 kDa

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