abcam

ab76956

Anti-RUNX2 antibody [2B9]

Anti-RUNX2 antibody [2B9] (ab76956) is a mouse monoclonal antibody detecting RUNX2 in **Western Blot, Flow Cytometry, ICC/IF**. Suitable for **Human, Rat,**.

- Over 320 publications
- Trusted since 2009

Key facts

Isotype	IgG2a
Host species	Mouse
Storage buffer	pH: 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human RUNX2 aa 250-400. The exact immunogen used to generate this antibody is proprietary information. Database link Q13950
Carrier free	Yes
Clone number	2B9
Purification technique	Affinity purification Protein A
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from Cell Culture supernatant.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Horse, Dog, Pig, Chimpanzee, Rhesus monkey
Dilution info	-
Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

WB

Tested

Species	Recombinant fragment - Human, Rat
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Horse, Dog, Pig, Chimpanzee, Rhesus monkey
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Horse, Dog, Pig, Chimpanzee, Rhesus monkey
Dilution info	-
Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

Target data

See full target information RUNX2

Function	Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis (PubMed:28505335, PubMed:28703881, PubMed:28738062). 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. In osteoblasts, supports transcription activation: synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE) (By similarity). Inhibits KAT6B-dependent transcriptional activation.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

Product Specifications
Anti-RUNX2 antibody [2B9] (ab76956) is a mouse monoclonal antibody and is validated for use in Flow Cyt, ICC/IF, WB in human, rat, samples.
Anti-RUNX2 antibody [2B9] (ab76956) specifically detects RUNX2 (UniProt ID: Q13950; Molecular weight: 57kDa) and is sold in 100 µg selling sizes.

Quality and Validation
Abcam's high quality validation processes ensure Anti-RUNX2 antibody [2B9] (ab76956) has high sensitivity and specificity.
Anti-RUNX2 antibody [2B9] (ab76956) has been cited over 324 times in peer reviewed journals and is trusted by the scientific community.
Anti-RUNX2 antibody [2B9] (ab76956) has 7 independent reviews from customers.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

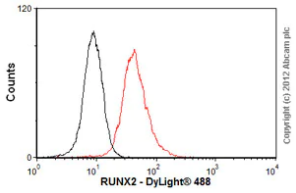
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

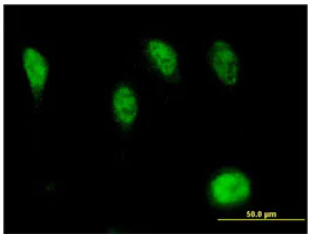
3 product images



Flow Cytometry - Anti-RUNX2 antibody [2B9] (ab76956)

RUNX2 Flow Cytometry staining using mouse Anti-RUNX2 antibody

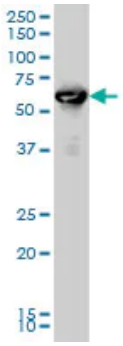
Overlay histogram showing Saos 2 cells stained with ab76956 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab76956, 1µg/1x10^6 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/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-RUNX2 antibody [2B9] (ab76956)

RUNX2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-RUNX2 antibody

ab76956 at 10µg/ml staining RUNX2 in HeLa cells by Immunofluorescence.
This image was generated using the ascites version of the product.



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

RUNX2 Western blot staining of PC12 cell lysate using mouse Anti-RUNX2 antibody

This image was generated using the ascites version of the product.
All lanes:
Western blot - Anti-RUNX2 antibody [2B9] (ab76956) at 1 µg/mL

All lanes:
PC12 cell lysate at 25 µg

Secondary

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

Predicted band size: 57 kDa

Observed band size: 56 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.