

Product datasheet

Anti-RUNX3 antibody [R3-5G4] ab40278

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Overview

| | |
|----------------------------|---|
| Product name | Anti-RUNX3 antibody [R3-5G4] |
| Description | Mouse monoclonal [R3-5G4] to RUNX3 |
| Tested applications | Flow Cyt, IP, WB, EMSA, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | Recombinant fragment derived from residues 191 - 300 of Human RUNX3. |
| Positive control | 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) |

Properties

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|-----------------------------|--|
| Form | Liquid |
| Storage instructions | 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. |
| Storage buffer | Preservative: 0.02% Sodium Azide Constituents: PBS |
| Purity | IgG fraction |
| Clonality | Monoclonal |
| Clone number | R3-5G4 |
| Isotype | IgG1 |

Applications

Our [Abpromise guarantee](#) covers the use of **ab40278** in the following tested applications.

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

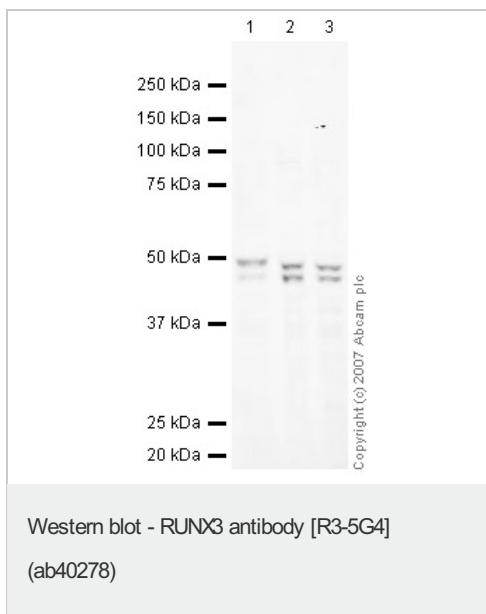
| Application | Abreviews | Notes |
|-----------------|-----------|---|
| Flow Cyt | | Use 1µg for 10 ⁶ cells. ab170190 -Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| IP | | Use at an assay dependent concentration. |

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | Use a concentration of 1 µg/ml. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa). |
| EMSA | | Use at an assay dependent concentration. |
| IHC-P | ★☆☆☆☆ | Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. |

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. |

Anti-RUNX3 antibody [R3-5G4] images



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 (Human) Whole Cell Lysate (ab3957)

Lysates/proteins at 10 µg per lane.

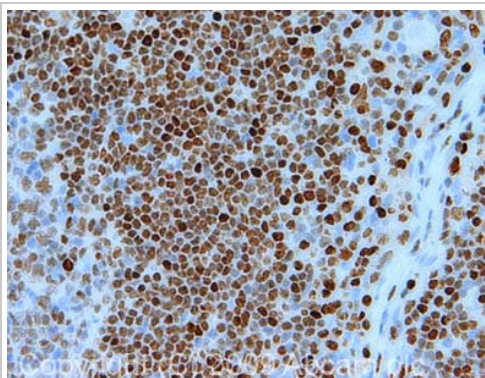
Secondary

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

Performed under reducing conditions.

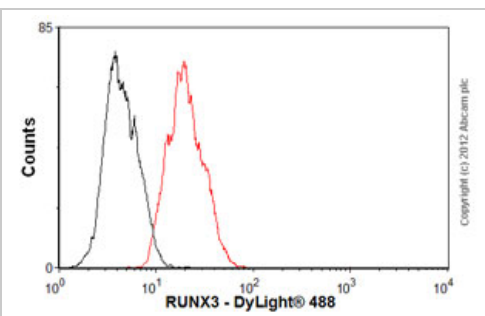
Predicted band size : 44 kDa

Additional bands at : 46 kDa (possible isoform).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - 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-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.

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