


Product datasheet

Anti-RAP1A + RAP1B antibody [EPR14815(B)] ab181858

Recombinant RabMAb

[1 References](#) [4 Images](#)

Overview

Product name	Anti-RAP1A + RAP1B antibody [EPR14815(B)]
Description	Rabbit monoclonal [EPR14815(B)] to RAP1A + RAP1B
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IP, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, A431, 293 and MOLT4 cell lysates; HeLa cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR14815(B)
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181858 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 (Intra)		1/30. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/50.
WB		1/10000 - 1/50000. Detects a band of approximately 21 kDa (predicted molecular weight: 21 kDa).

Target

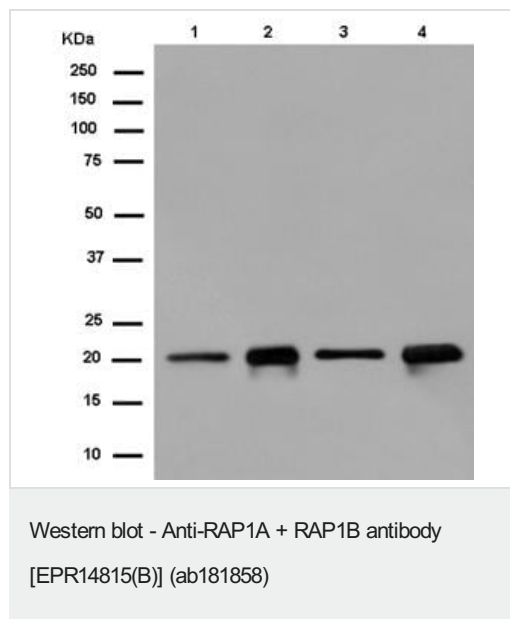
Relevance

RAP1A and RAP1B belong to a family of RAS-related proteins. These proteins share approximately 50% amino acid identity with the classical RAS proteins and have numerous structural features in common. The most striking difference between the RAP and RAS proteins resides in their 61st amino acid: glutamine in RAS is replaced by threonine in RAP proteins. Human RAP1B is 95% identical to RAP1A. RAP1A and B are proposed to regulate Ras-mediated signalling and may also be involved in the regulation of integrin-mediated cell adhesion, although the mechanism of regulation is not known.

Cellular localization

Cell Membrane; Attached to the membrane by a lipid anchor

Images



All lanes : Anti-RAP1A + RAP1B antibody [EPR14815(B)]
(ab181858) at 1/50000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : A431 cell lysate

Lane 3 : 293 cell lysate

Lane 4 : MOLT4 cell lysate

Lysates/proteins at 20 µg per lane.

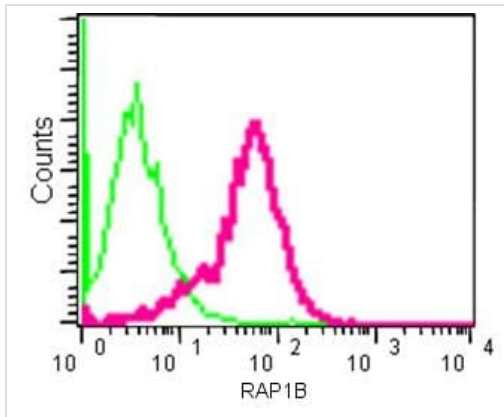
Secondary

All lanes : goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

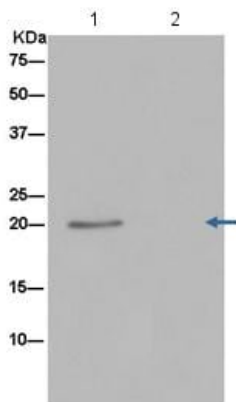
Predicted band size: 21 kDa

Observed band size: 21 kDa



Flow Cytometry (Intracellular) - Anti-RAP1A +
RAP1B antibody [EPR14815(B)] (ab181858)

Intracellular Flow Cytometry analysis of paraformaldehyde-fixed HeLa cells labeling RAP1B with ab181858 at a 1/30 dilution and secondary antibody goat anti-rabbit IgG (FITC, red) at a 1/150 dilution, or negative control rabbit IgG (green).



Immunoprecipitation - Anti-RAP1A + RAP1B
antibody [EPR14815(B)] (ab181858)

Western blot analysis on immunoprecipitation from 1) 293 cell lysate or 2) negative control, labeling RAP1B using ab181858 at 1/50 dilution and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG at a 1/1500 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-RAP1A + RAP1B antibody [EPR14815(B)]
(ab181858)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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