abcam

Product datasheet

Anti-RAP1A + RAP1B antibody [EPR14815(B)] - BSA and Azide free ab250529

Recombinant RabMAb

4 Images

Overview

Product name	Anti-RAP1A + RAP1B antibody [EPR14815(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR14815(B)] to RAP1A + RAP1B - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	ab250529 is the carrier-free version of **ab181858**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR14815(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250529 in the following tested applications.

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

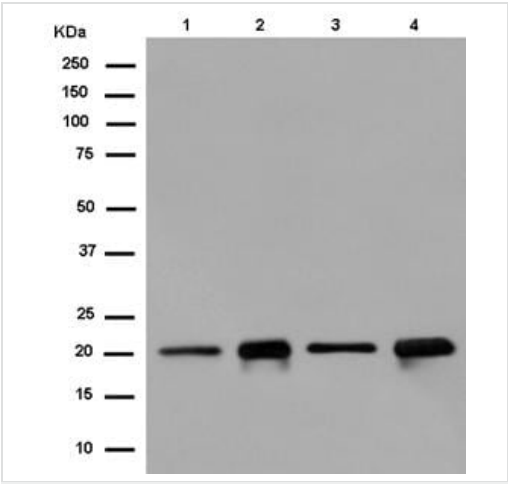
Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 21 kDa (predicted molecular weight: 21 kDa).
Flow Cyt (Intra)		Use at an assay dependent concentration.

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



Western blot - Anti-RAP1A + RAP1B antibody [EPR14815(B)] - BSA and Azide free (ab250529)

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

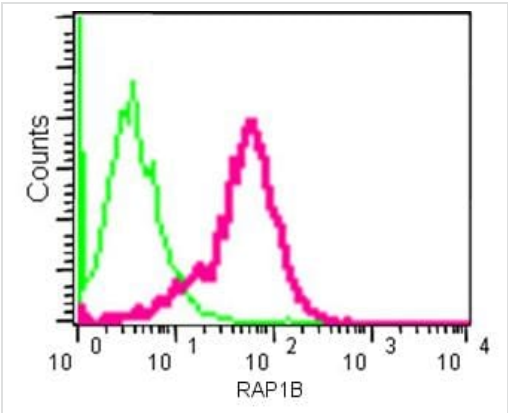
Lysates/proteins at 20 µg per lane.

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

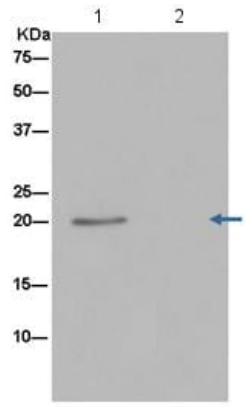
This data was developed using **ab181858**, the same antibody clone in a different buffer formulation.



Flow Cytometry (Intracellular) - Anti-RAP1A + RAP1B antibody [EPR14815(B)] - BSA and Azide free (ab250529)

This data was developed using **ab181858**, the same antibody clone in a different buffer formulation.

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)] - BSA and Azide free (ab250529)

This data was developed using **ab181858**, the same antibody clone in a different buffer formulation.

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.

Anti-RAP1A + RAP1B antibody [EPR14815(B)] - BSA and Azide free (ab250529)

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