abcam

Product datasheet

Anti-ARHGEF1 antibody ab56462

1 Image

Overview

Product name	Anti-ARHGEF1 antibody
Description	Mouse monoclonal to ARHGEF1
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment: CRPGPEGQLA ATALRKVLSL KQLLFPAEED NGAGPPRDGD GVPGGGPLSP ARTQEIQENL LSLEETMKQL EELEEEFCRL RPLLSQLGGN SVPQPGCT, corresponding to amino acids 830-927 of Human ARHGEF1 Run BLAST with ExPASy Run BLAST with NCBI

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab56462** 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
WB		

Application notes	WB: Use at a concentration of 1-5 µg/ml.

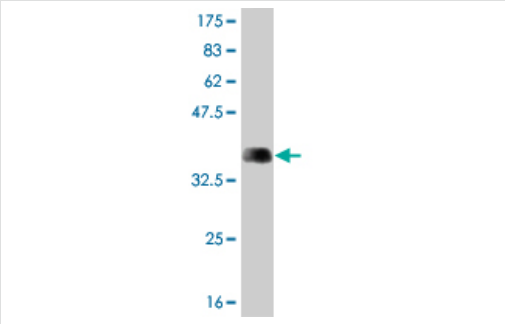
This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function	Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits. Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain. This GEF activity is inhibited by binding to activated GNA12. Mediates angiotensin-2-induced RhoA activation.
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Contains 1 DH (DBL-homology) domain. Contains 1 PH domain. Contains 1 RGSL (RGS-like) domain.
Domain	The RGSL domain, also known as rgRGS domain, is necessary but not sufficient for GAP activity. The DH domain is involved in interaction with CCPG1.
Post-translational modifications	Phosphorylated by PKCA. Angiotensin-2 induced Tyr-738 phosphorylation is mediated by JAK2.
Cellular localization	Cytoplasm. Membrane. Translocated to the membrane by activated GNA13 or LPA stimulation.

Images



Western blot - ARHGEF1 antibody (ab56462)

Western blot against tagged recombinant protein immunogen using ab56462 ARHGEF1 antibody at 1ug/ml. Predicted band size of immunogen is 37 kDa

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