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ARHGAP24 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP13826b

Specification

ARHGAP24 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q8N264

ARHGAP24 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 83478

Other Names
Rho GTPase-activating protein 24, Filamin-A-associated RhoGAP, FilGAP, RAC1- and CDC42-specific GTPase-activating protein of 72 kDa, RC-GAP72, Rho-type GTPase-activating protein 24, RhoGAP of 73 kDa, Sarcoma antigen NY-SAR-88, p73RhoGAP, ARHGAP24, FILGAP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13826b was selected from the C-term region of ARHGAP24. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ARHGAP24 Antibody (C-term) Blocking peptide - Protein Information

Name ARHGAP24

Synonyms FILGAP

Function
Rho GTPase-activating protein involved in cell polarity, cell morphology and cytoskeletal organization. Acts as a GTPase activator for the Rac-type GTPase by converting it to an inactive GDP-bound state. Controls actin remodeling by inactivating Rac downstream of Rho leading to suppress leading edge protrusion and promotes cell retraction to achieve cellular polarity. Able to suppress RAC1 and CDC42 activity in vitro. Overexpression induces cell rounding with partial or complete disruption of actin stress fibers and formation of membrane ruffles, lamellipodia, and filopodia. Isoform 2 is a vascular cell-specific GAP involved in modulation of angiogenesis.

Cellular Location

Cytoplasm, cytoskeleton. Cell junction, adherens junction. Cell junction, focal adhesion. Cell projection Note=Localizes to actin stress fibers. In migrating cells, localizes to membrane lamellae and protusions

Tissue Location
Isoform 1 is widely expressed with a higher level in kidney. Isoform 2 is mainly expressed in endothelial cells

ARHGAP24 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

ARHGAP24 Antibody (C-term) Blocking peptide - Images

ARHGAP24 Antibody (C-term) Blocking peptide - Background

ARHGAPs, such as ARHGAP24, encode negative regulators ofRho GTPases (see ARHA; MIM 165390), which are implicated in actinremodeling, cell polarity, and cell migration (Katoh and Katoh,2004 [PubMed 15254788]).

ARHGAP24 Antibody (C-term) Blocking peptide - References

Horinouchi, M., et al. Pediatr Hematol Oncol 27(5):344-354(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Holm, H., et al. Nat. Genet. 42(2):117-122(2010)Pfeufer, A., et al. Nat. Genet. 42(2):153-159(2010)Nakamura, F., et al. PLoS ONE 4 (3), E4928 (2009) :