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RASA4 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17784a

Specification

RASA4 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O43374

RASA4 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 10156

Other Names
Ras GTPase-activating protein 4, Calcium-promoted Ras inactivator, Ras p21 protein activator 4, RasGAP-activating-like protein 2, RASA4, CAPRI, GAPL, KIAA0538

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.

RASA4 Antibody (N-term) Blocking Peptide - Protein Information

Name RASA4

Synonyms CAPRI, GAPL, KIAA0538

Function
Ca(2+)-dependent Ras GTPase-activating protein, that switches off the Ras-MAPK pathway following a stimulus that elevates intracellular calcium. Functions as an adaptor for Cdc42 and Rac1 during FcR-mediated phagocytosis.

Cellular Location
Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein. Note=Localized to the cytosol as a result of its lack of phosphoinositide binding activity. Upon agonist-stimulated calcium mobilization, utilizes the C2A and C2B domains to associate with the plasma membrane

Tissue Location
Widely expressed..

RASA4 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

RASA4 Antibody (N-term) Blocking Peptide - Images

RASA4 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the GAP1 family ofGTPase-activating proteins that suppresses theRas/mitogen-activated protein kinase pathway in response to Ca(2+).Stimuli that increase intracellular Ca(2+) levels result in thetranslocation of this protein to the plasma membrane, where itactivates Ras GTPase activity. Consequently, Ras is converted fromthe active GTP-bound state to the inactive GDP-bound state and nolonger activates downstream pathways that regulate gene expression,cell growth, and differentiation. Multiple transcript variantsencoding different isoforms have been found for this gene.

RASA4 Antibody (N-term) Blocking Peptide - References

Liu, Q., et al. J. Cell Biol. 170(2):183-190(2005)Minagawa, T., et al. Biochem. Biophys. Res. Commun. 288(1):87-90(2001)Lockyer, P.J., et al. Curr. Biol. 11(12):981-986(2001)