

### RASA4 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP17784a

### **Specification**

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

**Primary Accession** 

043374

# 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 from the 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)