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TIAM2 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13610a

Specification

TIAM2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q8IVF5

TIAM2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 26230

Other Names
T-lymphoma invasion and metastasis-inducing protein 2, TIAM-2, SIF and TIAM1-like exchange factor, TIAM2, KIAA2016, STEF

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13610a was selected from the N-term region of TIAM2. 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.

TIAM2 Antibody (N-term) Blocking peptide - Protein Information

Name TIAM2

Synonyms KIAA2016, STEF

Function
Modulates the activity of RHO-like proteins and connects extracellular signals to cytoskeletal activities. Acts as a GDP- dissociation stimulator protein that stimulates the GDP-GTP exchange activity of RHO-like GTPases and activates them. Mediates extracellular laminin signals to activate Rac1, contributing to neurite growth. Involved in lamellipodial formation and advancement of the growth cone of embryonic hippocampal neurons. Promotes migration of neurons in the cerebral cortex. When overexpressed, induces membrane ruffling accompanied by the accumulation of actin filaments along the altered plasma membrane (By similarity). Activates specifically RAC1, but not CDC42 and RHOA.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q6ZPF3}. Cell projection, lamellipodium {ECO:0000250|UniProtKB:Q6ZPF3}. Cell projection, filopodium {ECO:0000250|UniProtKB:Q6ZPF3}. Cell projection, growth cone {ECO:0000250|UniProtKB:Q6ZPF3}. Cell projection, neuron projection {ECO:0000250|UniProtKB:Q6ZPF3}. Perikaryon {ECO:0000250|UniProtKB:Q6ZPF3}

Tissue Location
Expressed in the occipital, frontal and temporal lobes, cerebellum, putamen and testis.

TIAM2 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

TIAM2 Antibody (N-term) Blocking peptide - Images

TIAM2 Antibody (N-term) Blocking peptide - Background

This gene encodes a guanine nucleotide exchange factor. Ahighly similar mouse protein specifically activates ras-related C3botulinum substrate 1, converting this Rho-like guanosinetriphosphatase (GTPase) from a guanosine diphosphate-bound inactivestate to a guanosine triphosphate-bound active state. The encodedprotein may play a role in neural cell development. Alternativelyspliced transcript variants encoding different isoforms have beendescribed.

TIAM2 Antibody (N-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Rabizadeh, S., et al. Cytokine Growth Factor Rev. 14 (3-4), 225-239 (2003) :Salehi, A.H., et al. J. Biol. Chem. 277(50):48043-48050(2002)Yoshizawa, M., et al. Mech. Dev. 113(1):65-68(2002)Harrington, A.W., et al. J. Neurosci. 22(1):156-166(2002)