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TIAM2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13610a

Product Information

Application	WB, E
Primary Accession	Q8IVF5
Other Accession	NP_001010927.1, NP_036586.2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33017
Calculated MW	190103
Antigen Region	357-385

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	This TIAM2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 357-385 amino acids of human TIAM2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TIAM2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

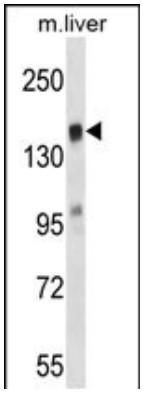
Background

This gene encodes a guanine nucleotide exchange factor. A highly similar mouse protein specifically activates ras-related C3 botulinum substrate 1, converting this Rho-like guanosine triphosphatase (GTPase) from a guanosine diphosphate-bound inactive state to a guanosine triphosphate-bound active state. The encoded protein may play a role in neural cell development. Alternatively spliced transcript variants encoding different isoforms have been described.

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)

Images



TIAM2 Antibody (N-term) (Cat. #AP13610a) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the TIAM2 antibody detected the TIAM2 protein (arrow).