



TIAM2 Rabbit mAb

Catalog No	YP-rAb-17433
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	TIAM2,KIAA2016,STEF
Protein Name	Rho guanine nucleotide exchange factor TIAM2 (SIF and TIAM1-like exchange factor) (T-lymphoma invasion and metastasis-inducing protein 2) (TIAM-2)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	KIAA2016 STEF
Observed Band	187kD
Calculated Molecular Weight	187kD
Cell Pathway	SUBCELLULAR 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 Specificity	TISSUE SPECIFICITY: Expressed in the occipital, frontal and temporal lobes, cerebellum, putamen and testis. {ECO:0000269 PubMed:10512681}.
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.
{ECO:0000250, ECO:0000269|PubMed:10512681}.

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. [provided by RefSeq, Jul 2008]

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Western blot analysis of lysates from K562 cell, primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody was diluted at 1:10000, 37° 1hour.

