TIAM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TIAM1, Polyclonal Antibody
Full Product Name	TIAM1, CT (TIAM1, T-lymphoma invasion and metastasis-inducing protein 1) (MaxLight 550)
Product Gene Name	anti-TIAM1 antibody
Product Synonym Names	TIAM1; T-lymphoma invasion and metastasis-inducing protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	170,580 Da
OMIM	U16296 mRNA
3D Structure	ModBase 3D Structure for Q13009
Immunogen	TIAM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1478-1506 amino acids from the C-terminal region of human TIAM1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-TIAM1 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-TIAM1 antibody	Western Blot (WB), FLISA
Application Notes for anti-TIAM1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TIAM1 antibody	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. Activates RAC1, CDC42, and to a lesser extent RHOA.
Product References and Citations for anti-TIAM1 antibody	Yang, W., et al. Jpn. J. Clin. Oncol. 40(11):1053-1059(2010). Moriarty, C.H., et al. J. Biol. Chem. 285(27):20541-20546(2010). Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Rajagopal, S., et al. J. Biol. Chem. 285(23):18060-18071(2010). Shepherd, T.R., et al. J. Mol. Biol. 398(5):730-746(2010).
Other Notes	Small volumes of anti-TIAM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for TIAM1 purchase	MBS6355499 is an antibody targeting TIAM1. Also known as TIAM1, CT (TIAM1, T-lymphoma invasion and metastasis-inducing protein 1) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIAM1. It may not necessarily be applicable to this product.

NCBI GI #	115583670
NCBI GeneID	7074
NCBI Accession #	NP_003244.2
UniProt Primary Accession #	Q13009
UniProt Secondary Accession #	Q17RT7; B7ZLR6; F5GZ53
UniProt Related Accession #	Q13009
GenBank Nucleotide #	NM_003253.2
NCBI Official Full Name	T-lymphoma invasion and metastasis-inducing protein 1
NCBI Official Synonym Full Names	T-cell lymphoma invasion and metastasis 1
NCBI Official Symbol	TIAM1
UniProt Protein Name	T-lymphoma invasion and metastasis-inducing protein 1
Protein Family	T-lymphoma invasion and metastasis-inducing protein
UniProt Gene Name	TIAM1
UniProt Synonym Gene Names	TIAM-1
NCBI Protein Information	T-lymphoma invasion and metastasis-inducing protein 1
UniProt Comments for TIAM1	TIAM1: 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. Activates RAC1, CDC42, and to a lesser extent RHOA. Regulates migration, cell-matrix and cell-cell adhesion by modulating the actin cytoskeleton through the GTPase, Rac1. Binding to Rac1 and the Arp2/3 complex may drive actin polymerization at specific sites, thus inducing dynamic morphological changes. Protein type: GEFs; GEFs, Rac/Rho; Motility/polarity/chemotaxis; Oncoprotein Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: cytosol; extrinsic to internal side of plasma membrane; intercellular junction; plasma membrane Molecular Function: guanyl-nucleotide exchange factor activity; kinase binding; protein binding; Rac guanyl-nucleotide exchange factor activity; Rho guanyl-nucleotide exchange factor activity Biological Process: cell migration; cell-matrix adhesion; ephrin receptor signaling pathway; positive regulation of apoptosis; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of protein binding; Rac protein signal transduction; regulation of small GTPase mediated signal transduction
Research Articles on TIAM1	**1.** Tiam1 expression significantly increased in cholangiocarcinoma tissues, and increased along with the degree of malignancy of cholangiocarcinoma. Targeted silencing Tiam1 expression could inhibit proliferation and migration activity of cholangiocarcinoma cells.
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