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TIAM1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP19942b

Specification

TIAM1 Blocking Peptide (C-term) - Product Information

Primary Accession	Q13009
Other Accession	Q60610, NP_003244.2

TIAM1 Blocking Peptide (C-term) - Additional Information

Gene ID 7074

Other Names
T-lymphoma invasion and metastasis-inducing protein 1, TIAM-1, TIAM1

Target/Specificity
The synthetic peptide sequence is selected from aa 1493-1506 of HUMAN TIAM1

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.

TIAM1 Blocking Peptide (C-term) - Protein Information

Name TIAM1 {ECO:0000303|PubMed:7731688, ECO:0000312|HGNC:HGNC:11805}

Function
Guanyl-nucleotide exchange factor that activates RHO-like proteins and connects extracellular signals to cytoskeletal activities. Activates RAC1, CDC42, and to a lesser extent RHOA and their downstream signaling to regulate processes like cell adhesion and cell migration.

Cellular Location
Cell junction. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Detected at the boundary between cells with actin-rich protrusions (By similarity). Presence of KRIT1, CDH5 and RAP1B is required for its localization to the cell junction

Tissue Location
Found in virtually all analyzed tumor cell lines including B- and T-lymphomas, neuroblastomas, melanomas and carcinomas

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TIAM1 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

TIAM1 Blocking Peptide (C-term) - Images

TIAM1 Blocking Peptide (C-term) - Background

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.

TIAM1 Blocking Peptide (C-term) - References

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)