

Product datasheet for TP320233

TIAM1 (NM_003253) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human T-cell lymphoma invasion and metastasis 1 (TIAM1), 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC220233 representing NM_003253
Red=Cloning site Green=Tags(s)

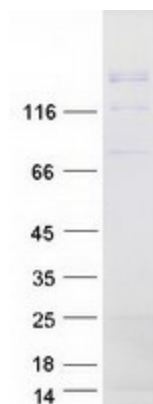
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SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV



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Tag:	C-Myc/DDK
Predicted MW:	177.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003244
Locus ID:	7074
UniProt ID:	Q13009 , A0A2X0TW27
RefSeq Size:	5521
Cytogenetics:	21q22.11
RefSeq ORF:	4773
Synonyms:	TIAM-1
Summary:	<p>This gene encodes a RAC1-specific guanine nucleotide exchange factor (GEF). GEFs mediate the exchange of guanosine diphosphate (GDP) for guanosine triphosphate (GTP). The binding of GTP induces a conformational change in RAC1 that allows downstream effectors to bind and transduce a signal. This gene thus regulates RAC1 signaling pathways that affect cell shape, migration, adhesion, growth, survival, and polarity, as well as influencing actin cytoskeletal formation, endocytosis, and membrane trafficking. This gene thus plays an important role in cell invasion, metastasis, and carcinogenesis. In addition to RAC1, the encoded protein activates additional Rho-like GTPases such as CDC42, RAC2, RAC3 and RHOA. This gene encodes multiple protein isoforms that experience a diverse array of intramolecular, protein-protein, and phosphorylation interactions as well as phosphoinositide binding. Both the longer and shorter isoforms have C-terminal Dbl homology (DH) and pleckstrin homology (PH) domains while only the longer isoforms of this gene have the N-terminal myristoylation site and the downstream N-terminal PH domain, ras-binding domain (RBD), and PSD-95/DlgA/ZO-1 (PDZ) domain. [provided by RefSeq, Jul 2017]</p>
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Regulation of actin cytoskeleton

Product images:

Coomassie blue staining of purified TIAM1 protein (Cat# TP320233). The protein was produced from HEK293T cells transfected with TIAM1 cDNA clone (Cat# [RC220233]) using MegaTran 2.0 (Cat# [TT210002]).