

Recombinant Human TIAM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TIAM1-634H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

TIAM1 MS Standard C13 and N15-labeled recombinant protein (NP_003244) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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.

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Molecular Mass

177.3 kDa

AA Sequence

MGNAESQHVEHEFYGEKHASLGRKHTSRSLRLSHKTRRRRHASSGKVIHRNSEVST
 RSSSTPSIPQSLAENGLEPFSQDGTLEDGSPWVDRVDMGLRPVSYTDSSVTPSV
 DSSIVLTAASVQSMPDTEESRLYGDDATYLAEGGRRQHSYTSNGPTFMETASFKKK
 RSKSADIWREDSLEFSLSDLSQEHLTSNEEILGSAEEKDCEEARGMETRASPRQLST
 CQRANSLGDLYAQKNSGVTANGGPGSKFAGYCRNLVSDIPNLANHKMPPAAAEET
 PPYSNYNTLPCRKSHCLSEGATNPQISHSNSMQGRRAKTTQDVNAGEGSEFADSGI
 EGATTDTDLLSRRSNATNSSYSPTTGRAFGSDSGSSSTGDAARQGVYENFRRELE
 MSTTNSESLEEAGSAHSDEQSSGTLSSPGQSDILLTAAQGTVRKAGALAVKNFLVH
 KKNKKVESATRRKWKHYWVSLKGCTLFFYESDGRSGIDHNSIPKHAVWVENSIVQA
 VPEHPKKDFVFCLSNSLGDALFLQTTSTQTELENWITAIHSACATAVARHHHKEDTLR
 LLKSEIKKLEQKIDMDEKMKKMGEMQLSSVTDSKKKKTILDQIFVWEQNLEQFQMDL
 FRFRCYLASLQGGELPNPKRLLAFASRPTKVAMGRLGIFSVSSFHALVAARTGETGV
 RRRTQAMSRASASKRRSRFSSLWGLDTSKKKQGRPSINQVFGEGTEAVKKSLEGIF
 DDIVPDGKREKEVVLPNVHQHNPDCDIWVHEYFTPSWFCLPNNQPALTTVVRPGDTA
 RDTLELICKTHQLDHSAYHLRLKFLIENKMQLYVPQPEEDIYELLYKEIEICPKVTQSIHI
 EKSDTAADTYGFSLSVEEDGIRRLYVNSVKETGLASKKGLKAGDEILEINNRAADAL
 NSSMLKDFLSQPSLGLLVRTYPELEEGVELLESPPHRVDGPADLGESPLAFLTSNPG
 HSLCSEQGSSAETAPEETEGPDLESSDET DHSSKSTEQVA AFCRSLHEMNPSDQS
 PSPQDSTGPQLATMRQLSDADKLRKVICELLETERTYVKDLNCLMERYLKPLQKETF
 LTQDEL DVLF GNLT EMVEFQVEFLKTLEDGVRLVPDLEKLEKVDQFKKVLFSLGGSF
 LYYADRFKLYSAFCASHTKVPKVLVKAKTDTAFKAFLDAQNPQQHSSTLESYLIKPI
 QRILKYPLLLRELFALTD AESEEHYHLDVAIKTMNKVASHINEMQKIHEEFGAVFDQLI
 AEQTGEKKEVADLSMGDLLLHTTVIWLNPASLGKWKKEPELA AFVFKTAVVLVYKD
 GSKQKKKLVGSHRLSIYEDWD PFRFRHMIPTEALQVRALASADA EANA VCEIVHVKS
 ESEGRPERVFHLCCSSPESRKDFLKAVHSILRDKHRRQLLKTESLPSSQQYVPFGG
 KRLCALKGARPAMSRAVSAPSKSLGRRRRRLARNRFTIDSDAVSASSPEKESQQPP
 GGGDTDRWVEEQFDLAQYEEQDDIKETDILSDDDEFCESVKGASVDRDLQERLQAT
 SISQRERGRKTLDSHASRMAQLKKQAALSGINGGLESASEEVIWVRREDFAPSRKL

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NTEISGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TIAM1 T-cell lymphoma invasion and metastasis 1 [Homo sapiens (human)]
Official Symbol	TIAM1
Synonyms	TIAM1; T-cell lymphoma invasion and metastasis 1; T-lymphoma invasion and metastasis-inducing protein 1; TIAM-1; human T-lymphoma invasion and metastasis inducing TIAM1 protein; FLJ36302;
Gene ID	7074
mRNA Refseq	NM_003253
Protein Refseq	NP_003244
MIM	600687

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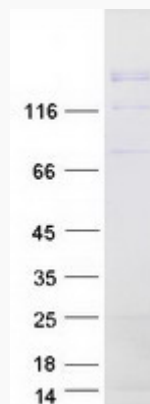
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UniProt ID

Q13009

SDS-PAGE

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