

TIE2 Active Protein | TEK active protein

TIE2 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258224

HOST
HEK293 Cells

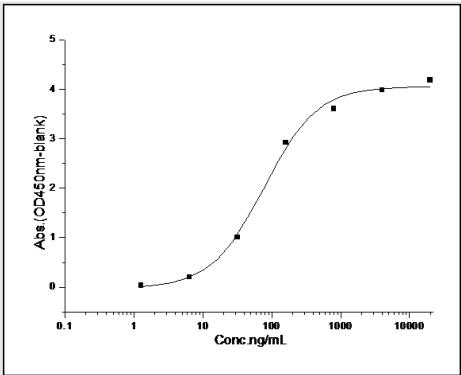
PRODUCT SYNONYMS

TIE2; TIE2 Protein; Mouse; Recombinant (His Tag); Mouse Tie2/TEK Protein (His Tag); AA517024 Protein; Cd202b Protein; Hyk Protein; STK1 Protein; Tie-2 Protein; Tie2 Protein; TEK tyrosine kinase; endothelial; TEK active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Lys74 4
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 23
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse TEK (Q02858)(Met1-Lys744) was expressed with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse TEK-His at 10ug/ml (100uL/well) can bind human Ang2-Fc with a linear range of 6.25-200ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized mouse TEK-His at 10 ug/ml (100 ul/well) can bind human Ang2-Fc with a linear range of 6.25-200 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for TEK active protein	Background: TEK, or TIE-2, is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of vascular endothelial cells. TEK comprises a subfamily of RTK with TIE, and these two receptors play critical roles in vascular maturation, maintenance of integrity and remodeling. Targeted mutagenesis of both Tek and its agonistic ligand, Angiopoietin-1, result in embryonic lethality, demonstrating that the signal transduction pathways mediated by this receptor are crucial for normal embryonic development. TEK signaling is indispensable for the development of the embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.
Product Categories/Family for TEK active protein	Receptor Tyrosine Kinases (RTKs) Cancer Drug Targets Hemangioblast Markers
References	Jones N, et al. (1998) The Tek/Tie2 receptor signals through a novel Dok-related docking protein, Dok-R. Oncogene. 17(9): 1097-108.Sato A, et al. (1998) Characterization of TEK receptor tyrosine kinase and its ligands, Angiopoietins, in human hematopoietic progenitor cells. Int Immunol. 10(8): 1217-27.Huang L, et al. (1995) GRB2 and SH-PTP2: potentially important endothelial signaling molecules downstream of the TEK/TIE2 receptor tyrosine kinase. Oncogene. 11(10): 2097-103.

NCBI AND UNIPROT INFORMATION

NCBI GI #	594542525
NCBI GeneID	21687
NCBI Accession #	NP_001277478.1
NCBI GenBank Nucleotide #	NM_001290549.1
UniProt Accession #	Q02858
Molecular Weight	125,701 Da
NCBI Official Full Name	angiopoietin-1 receptor isoform 2
NCBI Official Synonym Full Names	endothelial-specific receptor tyrosine kinase
NCBI Official Symbol	Tek
NCBI Official Synonym Symbols	Hyk; STK1; Tie2; Tie-2; Cd202b; AA517024
NCBI Protein Information	angiopoietin-1 receptor
UniProt Protein Name	Angiopoietin-1 receptor
UniProt Gene Name	Tek

UniProt Synonym Gene Names	Hyk; Tie-2; Tie2; mTIE2
UniProt Entry Name	TIE2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-tek-active-protein/tie2/258224>