

TIE2 Active Protein | TEK active protein

TIE2 Protein, Human, Recombinant (ECD, His & hFc Tag)

CATALOG #
AAA257917

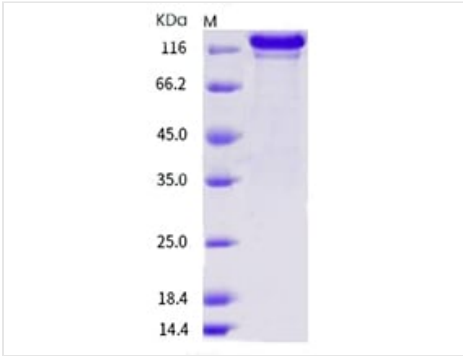
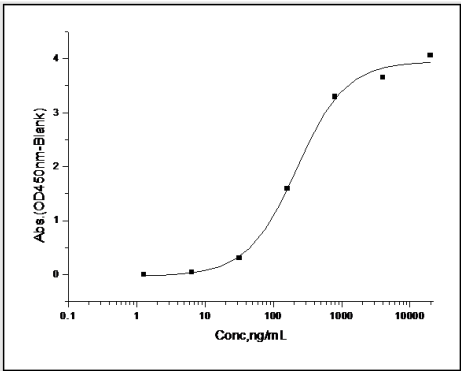
HOST
HEK293 Cells

PRODUCT SYNONYMS

TIE2; TIE2 Protein; Human; Recombinant (ECD; His & hFc Tag); Human Tie2/CD202b Protein (ECD; His & Fc Tag); CD202B Protein; TIE-2 Protein; VMCM Protein; VMCM1 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 5
Species	Human
Activity	Measured by its binding ability in a functional ELISA. Immobilized recombinant human Angiopoietin-2 at 10ug/ml (100uL/well) can bind Human Tie2/Fc chimera with a range of 0.2-20ug/ml.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 23
Tag	C-human IgG1-Fc & His
Protein Construction	A DNA sequence encoding the extracellular domain (Met1-Lys745) of human Tie2 (AAA61139.1) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
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.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized recombinant human Angiopoietin-2 at 10 ug/ml (100 ul/well) can bind Human Tie2 / Fc chimera with a range of 0.2-20 ug/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 #	88758596
NCBI GeneID	7010
NCBI Accession #	NP_000450.2
NCBI GenBank Nucleotide #	NM_000459.3
UniProt Accession #	Q02763; Q5TCU2; Q8IV34; A8K6W0; B4DH20; B4DHD3; D3DRK5; E7EWI2
Molecular Weight	125,830 Da
NCBI Official Full Name	angiopoietin-1 receptor
NCBI Official Synonym Full Names	TEK tyrosine kinase, endothelial
NCBI Official Symbol	TEK
NCBI Official Synonym Symbols	TIE2; VMCM; TIE-2; VMCM1; CD202B
NCBI Protein Information	angiopoietin-1 receptor; hTIE2; p140 TEK; soluble TIE2 variant 1; soluble TIE2 variant 2; endothelial tyrosine kinase; tyrosine-protein kinase receptor TEK; tunica interna endothelial cell kinase; tyrosine-protein kinase receptor TIE-2; tyrosine kinase wi
UniProt Protein Name	Angiopoietin-1 receptor

UniProt Gene Name	TEK
UniProt Synonym Gene Names	TIE2; VMCM; VMCM1; hTIE2
UniProt Entry Name	TIE2_HUMAN

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://stage.aaabiotech.com/hek293-cells-tek-active-protein/tie2/257917>