

TIE2 Active Protein | TEK active protein

TIE2 Protein, Mouse, Recombinant (ECD, hFc Tag)

CATALOG #
AAA258223

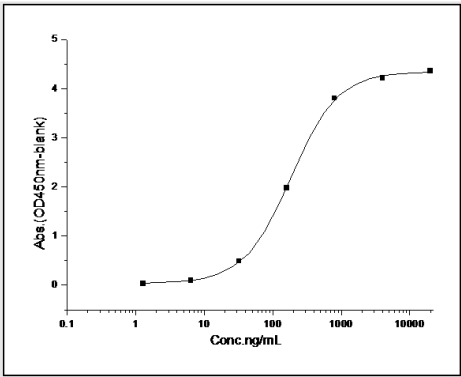
HOST
HEK293 Cells

PRODUCT SYNONYMS

TIE2; TIE2 Protein; Mouse; Recombinant (ECD; hFc Tag); Mouse Tie2/CD202b/TEK Protein (ECD; Fc 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	>95% 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 protein as determined by the LAL method.
Predicted N Terminal	Val 19
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse Tek (NP_038718.2)(Met1-Lys744) was expressed with the 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.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse ANGPT2 at 10ug/mL (100uL/well) can bind mouse TEK-Fc. The EC50 of mouse TEK-Fc is 0.58-1.34ug/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.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized mouse ANGPT2 at 10 ug/mL (100 uL/well) can bind mouse TEK-Fc. The EC50 of mouse TEK-Fc is 0.58-1.34 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

Molecular Weight	The recombinant mouse Tek consists 964 amino acids and predicts a molecular mass of 107.7kDa.
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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/tie2/258223>