



[Go to Product page](#)

Datasheet for ABIN7534018
TEK Protein (Fc Tag,His tag)

Overview

Quantity:	100 µg
Target:	TEK
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TEK protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Active Recombinant Human TIE2/TEK/CD202b Protein
Sequence:	AMDILILNSL PLVSDAETSL TCIASGWRPH EPITIGRDFE ALMNQHQDPL EVTQDVTREW AKKVVWKREK ASKINGAYFC EGRVRGEAIR IRTMKMRQQA SFLPATLTMT VDKGDNVNIS FKKVLKEED AVIYKNGSFI HSVPRHEVPD ILEVHLPAAQ PQDAGVYSAR YIGGNLFTSA FTRLIVRRC E AQKWGPECNH LCTACMNGV CHEDTGECIC PPGFMGRTCE KACELHTFGR TCKERCSGQE GCKSYVFCPL DPYGCSCATG WKGLQCNEAC HPGFYGPDCK LRCSCNNGEM CDRFQGLCS PGWQGLQ CER EGIPRMPKI VDLPDHIEVN SGKFNPICKA SGWPLPTNEE MTLVKPDGTV LHPKDFNHTD HFSVAIFTIH RILPPDSGVW VCSVNTVAGM VEKPFNISVK VLPKPLNAPN VIDTGHNFV INISSEPYFG DGPIKSKLL YKPVNHYEAW QHIQVTNEIV TLNYLEPRTE YELCVQLVRR GEGGEGHPGP VRRFTTASIG LPPRGLNLL PKSQTTLNLT WQPIFPSSD DFYVEVERRS VQKSDQQNIK VPGNLTSVLL NNLHPREQYV VRARVNTKAQ GEWSEDLTAW TLSDILPPQP ENIKISNITH SSAVISWTIL DGYSISSITI RYKVQGKNED QHVDVKIKNA TITQYQLKGL EPETAYQVDI FAENNIGSSN PAFSHELVTL PESQAPADLG G GK

Product Details

Specificity:	Ala23-Lys745
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human ANGPT2 at 1 µg/mL (100 µL/well) can bind Human Tie2 with a linear range of 3.98-467.9 ng/mL. Measured by its binding ability in a functional ELISA. Immobilized PE anti-human CD202b (Tie2/Tek) Antibody at 1µg/mL (25 µL/well) can bind Human CD202b (Tie2/Tek) with a linear range of 0.46-33.95 ng/mL.

Target Details

Target:	TEK
Alternative Name:	TIE2/TEK/CD202b (TEK Products)
Background:	<p>Description: Tyrosine-protein kinase that acts as cell-surface receptor for ANGPT1, ANGPT2 and ANGPT4 and regulates angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of vascular quiescence. Has anti-inflammatory effects by preventing the leakage of proinflammatory plasma proteins and leukocytes from blood vessels. Required for normal angiogenesis and heart development during embryogenesis. Required for post-natal hematopoiesis. After birth, activates or inhibits angiogenesis, depending on the context. Inhibits angiogenesis and promotes vascular stability in quiescent vessels, where endothelial cells have tight contacts.</p> <p>Name: TEK,CD202B,GLC3E,TIE-2,TIE2,VMCM,VMCM1,Tie2</p>
Gene ID:	7010
UniProt:	Q02763
Pathways:	RTK Signaling, Growth Factor Binding

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.