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Datasheet for ABIN7520536

TEK Protein

Overview

Quantity:	10 µg
Target:	TEK
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Active Recombinant Human TIE2/TEK/CD202b Protein
Sequence:	KNNPDPTIYP VLDWNDIKFQ DVICEGNFGQ VLKARIKKDG LRMDAAIKRM KEYASKDDHR DFAGELEVLC KLGHPNIIIN LLGACEHRGY LYLAIEYAPH GNLLDFLRKS RVLETDPFAF IANSTASTLS SQQLLHFAAD VARGMDYLSQ KQFIHRDLAA RNILVGENYV AKIADFGLSR GQEVYVKKTM GRLPVRWMAI ESLNYSVYTT NSDVWSYGV LWEIVSLGGT PYCGMTCAEL YEKLPQGYRL EKPLNCDDEV YDLMRQCWRE KPYERPSFAQ ILVSLNRMLE ERKTYVNTTL YEKFTYAGID CSAEEAA
Specificity:	Lys808-Ala1124
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1.0 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human TEK Protein at 2 µg/mL (100 µL/well) can bind ANG2 with a linear range of 39-7090 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:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>