Datasheet for ABIN7198203

TEK Protein (His tag)

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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 His tag.

Product Details

Purpose:	Recombinant Human Tie2/CD202b Protein (His Tag)(Active)
Sequence:	Met 1-Lys 745
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Lys 745) of human Tie2 (NP_000450.2) precursor was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized recombinant human Tie2 at 2 µg/ml (100 µl/well) can bind human Angiopoietin-2 at a linear range of 1.28-160 ng/ml.

Target Details

Target:	TEK

Target Details

Alternative Name:	Tie2/CD202b (TEK Products)
Background:	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. Synonym: CD202B,TIE-2,TIE2,VMCM,VMCM1
Molecular Weight:	82 kDa
NCBI Accession:	NP_000450
Pathways:	RTK Signaling, Growth Factor Binding

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.