

Recombinant Human TIE2/TEK/CD202b Protein

Catalog No.: RP00122 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	7010	Q02763

Tags

C-hFc&His

Synonyms

TEK;CD202B;GLC3E;TIE-2;TIE2;VMCM;VMCM1;Tie2

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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.

Contact

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Background

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.

Basic Information

Description

Recombinant Human TIE2/TEK/CD202b Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala23-Lys745) of human Tie2/CD202b/TEK (Accession #NP_000450.2) fused with an Fc, 6×His tag at the C-terminus.

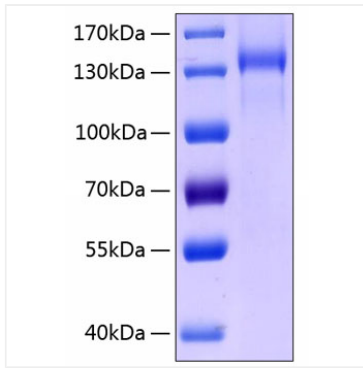
Bio-Activity

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 1 μg/mL (25 μL/well) can bind Human CD202b (Tie2/Tek) with a linear range of 0.46-33.95 ng/mL.

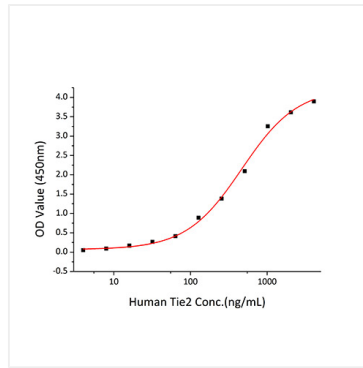
Storage

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. Avoid repeated freeze/thaw cycles.

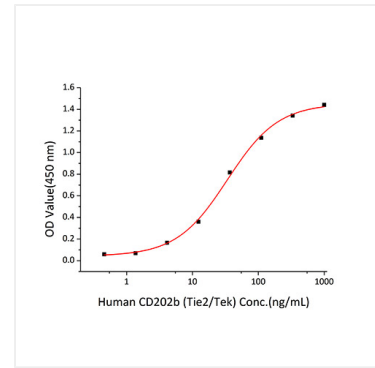
Validation Data



Recombinant Human TIE2/TEK/CD202b Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 130-140 kDa.



Immobilized Human ANGP2 at 1 μ g/mL (100 μ L/well) can bind Human Tie2 with a linear range of 3.98-467.9 ng/mL.



Immobilized PE anti-human CD202b (Tie2/Tek) Antibody at 1 μ g/mL (25 μ L/well) can bind Human CD202b (Tie2/Tek) with a linear range of 0.46-33.95 ng/mL.