Recombinant Human FLT-3/FLK-2/CD135 Protein

Catalog No.: RP01138

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Sequence Information

Species
Human

Gene ID
2322

Swiss Prot
P36888

Tags
C-His

Synonyms
FLT3,CD135,FLK-2,FLK2,STK1

Product Information

Source
HEK293 cells

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
59.7 kDa

Observed MW
85-95 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is a class III receptor tyrosine kinase that regulates hematopoiesis. This receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia.

Basic Information

Description
Recombinant Human FLT-3/FLK-2/CD135 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asn541) of human FLT-3/FLK-2/CD135 (Accession #NP_004110.2) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA.Immobilized Human FLT3L at 0.5 μg/mL (100 μL/well) can bind FLT3 with a linear range of 0.05-1.3 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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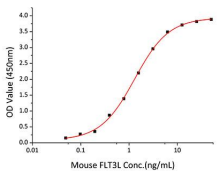
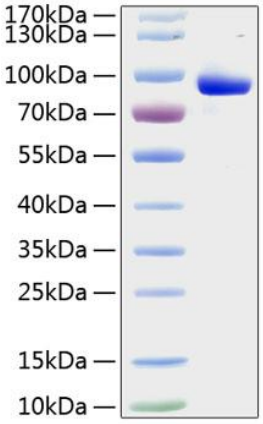
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Immobilized recombinant Human FLT3 at 0.5 μg/mL (100 μL/well) can bind FLT3L with a linear range of 0.05-1.3 ng/mL.



Recombinant Human FLT-3/FLK-2/CD135 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.