

Recombinant Human HGK2/DDR1/CD167a Protein

Catalog No.: RP01488 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	780	Q08345-1

Tags

C-His

Synonyms

CAK;CD167;DDR;EDDR1;HGK2;MCK10;N
EP;NTRK4;PTK3;PTK3A;RTK6;TRKE;DDR1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
44.87 kDa	55-65 kDa

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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.

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Background

Discoidin domain receptor family, member 1 (DDR1), also known as or CD167a (cluster of differentiation 167a), and Mammary carcinoma kinase 10 (MCK10), belongs to a subfamily of tyrosine kinase receptors with an extracellular domain homologous to Dictyostellium discoideum protein discoidin 1. Receptor tyrosine kinases play a key role in the communication of cells with their microenvironment. These kinases are involved in the regulation of cell growth, differentiation and metabolism. Expression of DDR1/MCK10/CD167 is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, it has been shown to be significantly overexpressed in several human tumors. DDR1/MCK10/CD167 plays an important role in regulating attachment to collagen, chemotaxis, proliferation, and MMP production in smooth muscle cells. DDR1 functions in a feedforward loop to increase p53 levels and at least some of its effectors. Inhibition of DDR1 function resulted in strikingly increased apoptosis of wild-type p53-containing cells in response to genotoxic stress through a caspase-dependent pathway.

Basic Information

Description

Recombinant Human HGK2/DDR1/CD167a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp21-Ala417) of human DDR1 (Accession #NP_054699.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human DDR1 at 1 μg/mL (100 μL/well) can bind DDR1 Rabbit pAb with a linear range of 1-205 ng/mL.

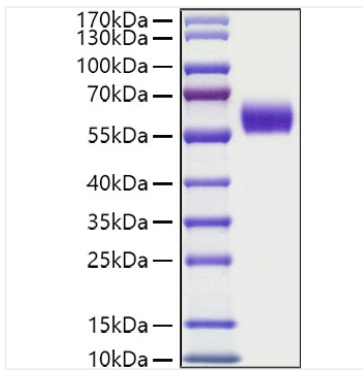
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

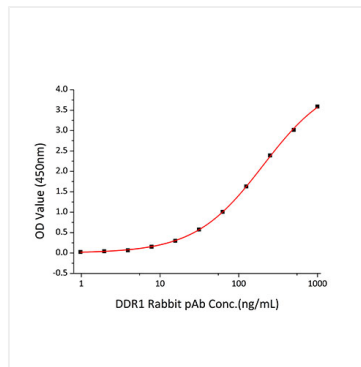
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human HGK2/CD167a Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-65kDa.



Immobilized recombinant Human DDR1 at 1 μ g/mL (100 μ L/well) can bind DDR1 Rabbit pAb with a linear range of 1-205ng/mL.