

# Recombinant Human HGK2/DDR1/CD167a Protein

Catalog No.: RP01488LQ **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

&lt;0.1EU/μg

### Formulation

Supplied as a 0.22 μm filtered solution in  
PBS, pH 7.4. Contact us for customized  
product form or formulation.

### Reconstitution

Reconstitute to a concentration of  
0.1-0.5 mg/mL in sterile distilled water.

## 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 0.24-44.7 ng/mL.

### Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.

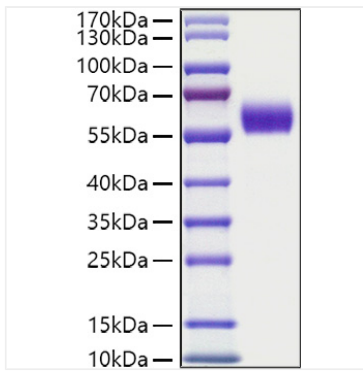
Avoid repeated freeze/thaw cycles.

## Contact

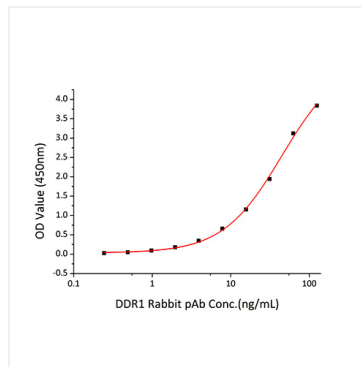
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## Validation Data

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



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