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DDR1 Protein (AA 21-417) (His tag)





Overview

Quantity:	100 μg
Target:	DDR1
Protein Characteristics:	AA 21-417
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDR1 protein is labelled with His tag.

Product Details

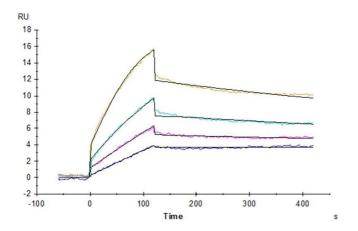
Purpose:	Human DDR1 Protein
Sequence:	Asp21-Ala417
Characteristics:	Recombinant Human DDR1 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Asp21-Ala417.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human DDR1, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve
	for Anti-DDR1 Antibody, hFc Tag with the EC50 of 12.8ng/ml determined by ELISA. The affinity
	constant of 0.806 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

l arget Details	
Target:	DDR1
Alternative Name:	DDR1 (DDR1 Products)
Background:	Discoidin domain receptor1 (DDR1) is a collagen activated receptor tyrosine kinase and an attractive anti-fibrotic target. Its expression is mainly limited to epithelial cells located in several organs including skin, kidney, liver and lung. DDR1's biology is elusive, with unknown downstream activation pathways, however, it may act as a mediator of the stromal-epithelial interaction, potentially controlling the activation state of the resident quiescent fibroblasts.
Molecular Weight:	45.1 kDa. Due to glycosylation, the protein migrates to 63-67 kDa based on Tris-Bis PAGE result.
Pathways:	RTK Signaling, Smooth Muscle Cell Migration
Application Details	
Restrictions:	For Research Use only

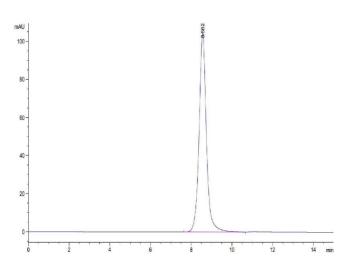
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



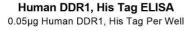
Surface Plasmon Resonance

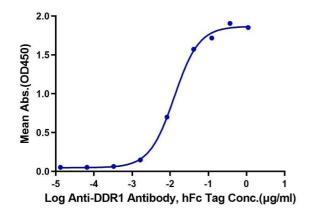
Image 1. Human DDR1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Native Human Collagen I protein with an affinity constant of 0.806 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human DDR1 is greater than 95% as determined by SEC-HPLC.





ELISA

Image 3. Immobilized Human DDR1, His Tag at $0.5\,\mu g/mL$ (100 $\mu L/well$) on the plate. Dose response curve for Anti-DDR1 Antibody, hFc Tag with the EC50 of 12.8 ng/mL determined by ELISA.

Please check the product details page for more images. Overall 4 images are available for ABIN7274460.