

Datasheet for ABIN7321116

DDR2 Protein (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	DDR2
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDR2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat DDR2 Kinase/CD167b Protein (His Tag)
Sequence:	Met1-Arg399
Characteristics:	A DNA sequence encoding the rat DDR2 (B1WC09) (Met1-Arg399) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method

Target Details

Target:	DDR2
Alternative Name:	DDR2 (DDR2 Products)
Background:	Background: Discoidin domain receptor 2 (DDR2) or CD167b (cluster of differentiation 167b) is a kind of protein tyrosine kinases associated with cell proliferation and tumor metastasis, and collagen, identified as a ligand for DDR2, up-regulates matrix metalloproteinase 1 (MMP-1) and

Target Details

MMP-2 expression in cellular matrix. DDR2/CD167b was found to recognise the triple-helical region of collagen X as well as the NC1 domain. Binding to the collagenous region was dependent on the triple-helical conformation. DDR2/CD167b autophosphorylation was induced by the collagen X triple-helical region but not the NC1 domain, indicating that the triple-helical region of collagen X contains a specific DDR2 binding site that is capable of receptor activation. DDR2/CD167b is induced during stellate cell activation and implicate the phosphorylated receptor as a mediator of MMP-2 release and growth stimulation in response to type I collagen. Moreover, type I collagen-dependent upregulation of DDR2/CD167b expression establishes a positive feedback loop in activated stellate cells, leading to further proliferation and enhanced invasive activity.

Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

Synonym: DDR2

Molecular Weight: 43.9 kDa

UniProt: [B1WC09](#)

Pathways: [RTK Signaling](#)

Application Details

Comment: 58 kDa

Restrictions: For Research Use only

Handling

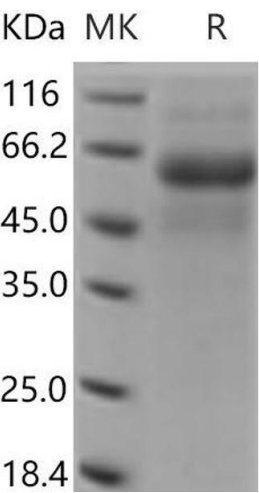
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.