

Datasheet for ABIN7321117

DDR2 Protein (Fc Tag)**1** Image[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	DDR2
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DDR2 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Rat DDR2 Kinase/CD167b Protein (Fc Tag)(Active)
Sequence:	Met1-Arg399
Characteristics:	A DNA sequence encoding the rat DDR2 (B1WC09) (Met1-Arg399) was expressed, fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 80 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	Measured by its ability to bind with Rat tail Collagen I in a functional ELISA.

Target Details

Target:	DDR2
Alternative Name:	DDR2 (DDR2 Products)

Target Details

Background:	<p>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 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.</p> <p>Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy</p> <p>Synonym: DDR2</p>
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Molecular Weight:	69.5 kDa
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UniProt:	B1WC09
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Pathways:	RTK Signaling
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Application Details

Comment:	110 kDa
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Restrictions:	For Research Use only
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Handling

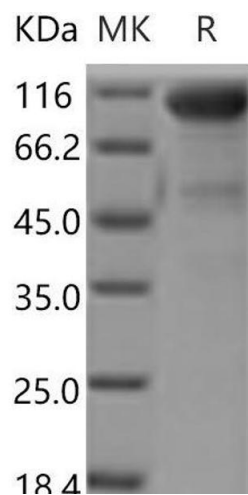
Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile PBS, pH 7.4
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	<p>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.</p>
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Western Blotting

Image 1.