

## Datasheet for ABIN7317961 DDR2 Protein (Fc Tag)



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### Overview

Quantity: 100 µg

Target: DDR2

Origin: Human

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 Human DDR2 Kinase/CD167b Protein (Fc Tag)(Active)

Sequence: Met 1-Arg 399

Characteristics: A DNA sequence encoding the extracellular domain (Met 1-Arg 399) of human DDR2 precursor (NP\_001014796.1) was expressed with the fused Fc region of human IgG1 at the C-terminus.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg as determined by the LAL method.

Biological Activity Comment: Measured by its binding ability in a functional ELISA. Immobilized Rat tail Collagen I at 10 µg/ml can bind recombinant human DDR2-Fc Chimera with a linear range of 2.5-80 ng/ml. Scatchard analysis showed the affinity constant (Kd) of recombinant human DDR2-Fc Chimera bound to rat tail collagen I was 6.8 nM.

## Target Details

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Target: DDR2

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Alternative Name: CD167b ([DDR2 Products](#))

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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. [Immune Checkpoint](#) [Immunotherapy](#) [Cancer Immunotherapy](#) [Targeted Therapy](#)

Synonym: CD167;MIG20a;NTRKR3;TKT;TYRO10

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Molecular Weight: 69.4 kDa

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NCBI Accession: [NP\\_001014796](#)

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Pathways: [RTK Signaling](#)

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## Application Details

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Comment: 87 kDa

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Restrictions: For Research Use only

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## Handling

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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: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

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## Handling

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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.