

Datasheet for ABIN7320003
DDR1 Protein (GST tag,His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	DDR1
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DDR1 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Mouse DDR1 Kinase/MCK10 Protein (His &GST Tag)(Active)
Sequence:	Leu444-Val874
Characteristics:	A DNA sequence encoding the mouse DDR1 (Q03146-2) (Leu444-Val874) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 2 nmol/min/mg using synthetic modified AXLtide peptide (modified-CKKSRGDYMTMQIG) as substrate.

Target Details

Target:	DDR1
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Target Details

Alternative Name: [DDR1 \(DDR1 Products\)](#)

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.

Synonym: 6030432F18, AI323681, Cak, CD167a, Nep, PTK3A

Molecular Weight: 75.8kDa

Pathways: [RTK Signaling, Smooth Muscle Cell Migration](#)

Application Details

Comment: 68 kDa

Restrictions: For Research Use only

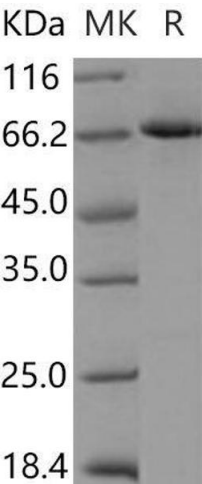
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol, 2 mM DTT

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.