Active Recombinant Mouse Discoidin Domain Receptor Family, Member 1

Cat. No. Ddr1-391M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinantmouse Ddr1 protein was expressed in Murine myeloma cell line, NS0-derived. Met1-Thr414.
Species	Mouse
Source	Mammalian Cells
ProteinLength	1-414 a.a.
Description	Ddr1, also known asCAK, NEP, CD167a, and EDDR1, is a 120 140 kDa type I transmembraneglycoprotein belonging to the discoidin-like domain-containing subfamily ofreceptor tyrosine kinases. Mature mouse Ddr1 consists of a 395 aaextracellular domain (ECD) that includes the discoidin-like domain, a 27 aatransmembrane segment, and a 470 aa cytoplasmic domain with the tyrosinekinase domain. Within the ECD, mouse Ddr1 shares 93% aa sequence identitywith human and rat Ddr1, respectively.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminal Sequence	Asp22
Molecular Weight	71.1 kDa
Activity	Measured by itsbinding ability in a functional ELISA. Immobilized Collagen I at 10

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	μg/mL(100 μL/well) can bind Recombinant Mouse DDR1 Fc Chimera with an apparent KD< 20 nM. Optimaldilutions should be determined by each laboratory for each application.
Endotoxin Level	<1.0 EU per 1 μgof the protein by the LAL method.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 300μg/mL in PBS.
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to-70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Ddr1discoidin domain receptor family, member 1 [Mus musculus]
Official Symbol	Ddr1
Synonyms	Ddr1; discoidindomain receptor family, member 1; Cak; Nep; PTK3A; CD167a; AI323681;6030432F18; OTTMUSP00000040506; OTTMUSP00000040507; OTTMUSP00000040508;OTTMUSP00000040509; OTTMUSP000000405010; OTTMUSP000000405011;OTTMUSP000000405012; OTTMUSP000000405013; OTTMUSP00000053933;OTTMUSP00000040546; epithetlial discoidin domain-containing receptor 1;tyrosine kinase DDR; cell adhesion kinase; tyrosine-protein kinase MPK-6;CD167 antigen-like family member A; discoidin receptor tyrosine kinase;epithetlial discoidin domain containing receptor 1; EC 2.7.10.1;tyrosine-protein kinase CAK
Gene ID	12305

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mRNA Refseq	NM_007584
Protein Refseq	NP_031610
UniProt ID	Q03146
Chromosome Location	17
Function	ATP binding; kinaseactivity; nucleotide binding; protein kinase activity; protein tyrosinekinase activity; receptor activity; transferase activity, transferringphosphorus-containing groups; transmembrane receptor protein tyrosine kinaseactivity

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