

Recombinant Human DDR1 Protein

Cat. No. DDR1-2453H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human DDR1 full-length ORF (NP_001945.3) recombinant protein without tag.
Species	Human
Source	Wheat Germ
Description	<p>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. The protein encoded by this gene belongs to a subfamily of tyrosine kinase receptors with homology to Dictyostelium discoideum protein discoidin I in their extracellular domain, and that are activated by various types of collagen. Expression of this protein 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. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011]</p>
Form	Liquid
Molecular Mass	97.2 kDa
AA Sequence	<p>MGPEALSSLLLLLLVASGDADMKGHFDPKCRYALGMQDRTIPDSDISASSSWSDS TAARHSRLESSDGDGAWCPAGSVFPKEEYQLQVDLQRLHLVALVGTQGRHAGGLG KEFSRSYRLRYSRDGRRWMGWKDRWGQEVISGNEDPEGVVLKDLGPPMVARLVR FYPRADRVMSVCLRVELYGCLWRDGLLSYAPVGQTMYLSEAVYLNDSTYDGHTV</p>

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GGLQYGGGLGQLADGVVGLDDFRKRSQELRVWPGYDYVGWSNHSFSSGYVEMEFEF
 DRLRAFQAMQVHCNNMHTLGARLPGGVECFRRGPAMAWEGEPMRHNLGGNLG
 DPRARAVSVPLGGRVARFLQCRFLFAGPWLLFSEISFISDVVNNSSPALGGTFPPAP
 WWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILIGCLVAIILLLLLIIALMLWRLHW
 RRLLSKAERRVLEEELTVHLSVPGDTILINNRPGPREPPPYQEPRPRGNPPHSAPCV
 PNGSAYSGDYMEPEKPGAPLLPPPPQNSVPHYAEADIVTLQGVTTGGNTYAVPALPP
 GAVGDGPPRVDFPRSRLRFKEKLGEGQFGEVHLCEVDSPQDLVSLDFPLNVRKGH
 PLLVAVKILRPDATKNARNDNFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMEN
 GDLNQFLSAHQLEDKAAEGAPGDGQAAQGPTISYPMLLHVAQAISGMRYLATLNF
 VHRDLATRNCLVGENFTIKIADFGMSRNLYAGDYRVQGRAVLPIRWMAWECILMG
 KFTTASDVWAFGVTLWEVLMCRAQPFGLTDEQVIENAGEFFRDQGRQVYLSRP
 PACPQGLYELMLRCWSRESEQRPPFSQLHRFLAEDALNTV

Applications	Antibody Production Functional Study Compound Screening
Usage	Heating may cause protein aggregation. Please do not heat this product before electrophoresis.
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name	DDR1 discoidin domain receptor tyrosine kinase 1 [Homo sapiens]
Official Symbol	DDR1

Synonyms

DDR1; discoidin domain receptor tyrosine kinase 1; CAK, discoidin domain receptor family, member 1, EDDR1, NEP, NTRK4, PTK3A; epithelial discoidin domain-containing receptor 1; CD167; RTK6; tyrosine kinase DDR; cell adhesion kinase; mammary carcinoma kinase 10; tyrosine-protein kinase CAK; protein-tyrosine kinase RTK-6; neuroepithelial tyrosine kinase; PTK3A protein tyrosine kinase 3A; CD167 antigen-like family member A; neurotrophic tyrosine kinase, receptor, type 4; CAK; DDR; NEP; HGK2; PTK3; TRKE; EDDR1; MCK10; NTRK4; PTK3A;

Gene ID

780

mRNA Refseq

NM_001202521

Protein Refseq

NP_001189450

MIM

600408

UniProt ID

Q08345

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