

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	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]
Form	Liquid
Molecular Mass	97.2 kDa
AA Sequence	MGPEALSSLLLLLLVASGDADMKGHFDPAKCRYALGMQDRTIPDSDISASSSWSDS TAARHSRLESSDGDGAWCPAGSVFPKEEEYLQVDLQRLHLVALVGTQGRHAGGLG KEFSRSYRLRYSRDGRRWMGWKDRWGQEVISGNEDPEGVVLKDLGPPMVARLVR FYPRADRVMSVCLRVELYGCLWRDGLLSYAPVGQTMYLSEAVYLNDSTYDGHTV

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GGLQYGGGLGQLADGVVGLDDFRKSQELRVWPGYDYVGWSNHSFSSGYVEMEFEF
 DRLRAFQAMQVHCNNMHTLGARLPGGVECFRRGPAMAWEGEPMRHNLGGNLG
 DPRARAVSVPLGGRVARFLQCRFLFAGPWLLFSEISFISDVVNNSSPALGGTFPPAP
 WWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILIGCLVAIILLIIIALMLWRLHW
 RRLLSKAERRVLEEELTVHLSVPGDTILINNRPGPREPPPYQEPRPRGNPPHSAPCV
 PNGSAYSGDYMEPEKPGAPLLPPPPQNSVPHYAEADIVTLQGGVTGGNTYAVPALPP
 GAVGDGPPRVDFPRSRLRFKEKLGEQGQFGEVHLCEVDSPQDLVSLDFPLNVRKGH
 PLLVAVKILRPDATKNARNDLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMEN
 GDLNQFLSAHQLEDKAAEGAPGDGQAAQGPTISYPMLLHVAAQIASGMRYLATLNF
 VHRDLATRNCLVGENFTIKIADFGMSRNLYAGDYRVQGRAVLPIRWMAWECILMG
 KFTTASDVWAFGVTLWEVLMLCRAQPFGQLTDEQVIENAGEFFRDQGRQVYLSRP
 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

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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