

Recombinant Full Length Human DDR1 Protein, GST-tagged

Cat. No. DDR1-2502HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DDR1 full-length ORF (AAH08716.1, 22 a.a. - 876 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	22-876 amino acids
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]
Molecular Mass	119.79 kDa
AA Sequence	MKGHFDPKCRYALGMQDRTIPDSDISASSSWSDSTAARHSRLESSDGDGAWCPA GSVFPKEEEYLQVDLQRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWM GWKDRWGQEVISGNEDPEGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYG

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CLWRDGLLSYTAPVGQTMYLSEAVYLNDSTYDGHTVGGLQYGGGLGQLADGVVGLD
 DFRKSQELRVWPGYDYVGWSNHSFSSGYVEMEFEDRLRAFQAMQVHCNNMHTL
 GARLPGGVVECRFRRGPAMAWEGEPMRHNLGGNLGDPRARAVSVPLGGRVARFLQ
 CRFLFAGPWLLFSEISFISDVVNNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRG
 QQPVAKAEGSPTAILIGCLVAIIIIIIIIALMLWRLHWRRLLSKAERRVLEEELTVHLS
 VPGDTILINNRPGPREPPPYQEPRPRGNPPHSAPCVPNGSAYS GDYMEPEKPGAPL
 LPPPPQNSVPHYAEADIVTLQGVTTGGNTYAVPALPPGAVGDGPPRVDFPRSRRLRFK
 EKLGEQGFGEVHLCEVDSPQDLVSLDFPLNVRKGHPDLLVAVKILRPDATKNARNDFL
 KEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENGDLNQFLSAHQLEDKAAEGAP
 GDGQAAQGPTISYPMLLHVAAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADF
 GMSRNLVAGDYRVQGRAVLPIRWMAWECILMGKFTTASDVWAFGVTLWEVLMMLC
 RAQPFQQLTDEQVIENAGEFFRDQGRQVYLSRPPACPQGLYELMLRCWSRESEQR
 PPFSQLHRFLAEDALNTV

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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