

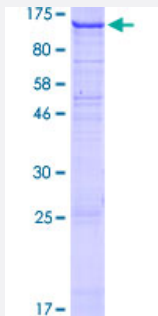
Full-Length

DDR2 (Human) Recombinant Protein (P01)

Catalog # H00004921-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DDR2 full-length ORF (NP_001014796.1, 1 a.a. - 855 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MILIPRMLLVLFLLLPILSSAKAQVNPAICRYPLGMSGGQIPDEEDITASSQWSESTAACYGRLDSEE
GDGAWCPEIPVEPDDLKEFLQIDLHLHFITLVGTQGRHAGGHGIEFAPMYKINYSRDGTRWISWR
NRHGKQVLGDNSNPYDIFLKDLEPPVARFVRFPVTDHSMNVCMRVELYGCWLDGLVSYNAPA
GQQFVLPGGSIYLNDSVYDGAVGYSMTEGLGQLTDGVSGLD DFTQTHEYHVWPGYDYVGWRNE
SATNGYIEIMFEFDRIRNFTTMKVHCNNMFAKGVKIFKEVQCYFRSEASEWEPNAISFPLVDDVN
PSARFVTVPLHHRMASAICQYHFADTWMMFSEITFQSDAAMYNNSEALPTSPMAPTTYDPMLK
VDDSNTRILIGCLVAIIFILLAIIVILWRQFWQKMLEKASRRMLDDEMTVSLSPSDSSMFNNNRSS
PSEQGSNSTYDRIFLRPDYQEPSRLIRKLPEFAPGEEESGCSGVVKPVQPSGPEGVPHYAEADI
VNLQGVTTGGNTYSVPAVTMDLLSGKDVAVEEFPRKLLTFKEKLGEQFGEVHLCEVEGMEKFK
DKDFALDV SANQPVLVAVKMLRADANKNARNDFLKEIKIMSRLKDPNIIHLLAVCITDDPLCMITEY
MENGDLNQFLSRHEPPNSSSSSDVRTVSYTNLKF MATQIASGMKYLSSLNFVHRDLATRNCLVGK
NYTIKADFGMSRNL YSGDYRIQGRAVLPIRWSWESILLGKFTTASDVWAFGVTLWETFTFCQE
QPYSQLSDEQVIENTGEFFRDQGRQTYLPQPAICPDSVYKMLLSCWRRDTKNRPSFQEIHLLLLQ
QGDE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

123.1

Interspecies Antigen Sequence

Mouse (96); Rat (95)

Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DDR2

Entrez GeneID	4921
GeneBank Accession#	NM_001014796.1
Protein Accession#	NP_001014796.1
Gene Name	DDR2
Gene Alias	MIG20a, NTRKR3, TKT, TYRO10
Gene Description	discoidin domain receptor tyrosine kinase 2
Omim ID	191311
Gene Ontology	Hyperlink

Gene Summary

Receptor tyrosine kinases (RTKs) play a key role in the communication of cells with their microenvironment. These molecules are involved in the regulation of cell growth, differentiation, and metabolism. In several cases the biochemical mechanism by which RTKs transduce signals across the membrane has been shown to be ligand induced receptor oligomerization and subsequent intracellular phosphorylation. This autophosphorylation leads to phosphorylation of cytosolic targets as well as association with other molecules, which are involved in pleiotropic effects of signal transduction. RTKs have a tripartite structure with extracellular, transmembrane, and cytoplasmic regions. This gene encodes a member of a novel subclass of RTKs and contains a distinct extracellular region encompassing a factor VIII-like domain. Alternative splicing in the 5' UTR results in multiple transcript variants encoding the same protein. [provided by RefSeq]

Other Designations

OTTHUMP00000032332|OTTHUMP00000038368|cell migration-inducing protein 20|discoidin domain receptor family, member 2|hydroxyaryl-protein kinase|migration-inducing gene 16 protein|neurotrophic tyrosine kinase receptor related 3|tyrosylprotein kinase

Disease

- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Ovarian Neoplasms](#)
- [Tobacco Use Disorder](#)