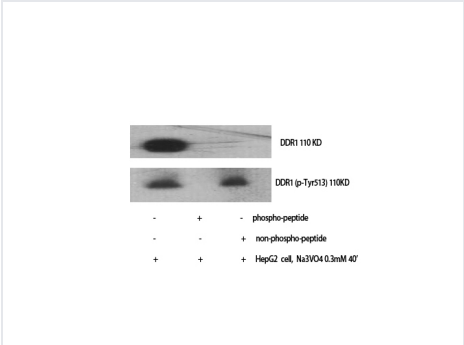
DDR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DDR1, Polyclonal Antibody
Full Product Name	Phospho-DDR1 (Y513) Polyclonal Antibody
Product Gene Name	anti-DDR1 antibody
Product Synonym Names	DDR1; CAK; EDDR1; NEP; NTRK4; PTK3A; RTK6; TRKE; Epithelial discoidin domain-containing receptor 1; Epithelial discoidin domain receptor 1; CD167 antigen-like family member A; Cell adhesion kinase; Discoidin receptor tyrosine kinase; HGK2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen Affinity Purified
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 101 kDa
OMIM	600408
Immunogen	Synthesized peptide derived from human DDR1 around the phosphorylation site of Y513.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Product Categories/Family for anti-DDR1 antibody	Phospho Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DDR1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-DDR1 antibody	WB: 1:500-1:2000, IHC: 1:50-1:200, ELISA: 1:5000-1:20000
Related Product Information for anti-DDR1 antibody	MBS2535807 is an antibody targeting DDR1. Also known as Phospho-DDR1 (Y513) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-DDR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-DDR1 antibody
Western Blot analysis of various cells with Phospho-DDR1 (Tyr513) Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDR1. It may not necessarily be applicable to this product.

NCBI GI #	47125290
NCBI GeneID	780
NCBI Accession #	AAH70070.1
UniProt Secondary Accession #	Q14196; Q16562; Q2L6H3; Q4LE50; Q5ST11; Q5ST12; Q6NSK4; Q9UD35; B5A975; B5A976; B7Z2K0
UniProt Related Accession #	Q08345
NCBI Official Full Name	DDR1 protein
NCBI Official Synonym Full Names	discoidin domain receptor tyrosine kinase 1
NCBI Official Symbol	DDR1
NCBI Official Synonym Symbols	CAK; DDR; NEP; HGK2; PTK3; RTK6; TRKE; CD167; EDDR1; MCK10; NTRK4; PTK3A
UniProt Protein Name	Epithelial discoidin domain-containing receptor 1
UniProt Synonym Protein Names	CD167 antigen-like family member A; Cell adhesion kinase; Discoidin receptor tyrosine kinase; HGK2; Mammary carcinoma kinase 10; MCK-10; Protein-tyrosine kinase 3A; Protein-tyrosine kinase RTK-6; TRK E; Tyrosine kinase DDR; Tyrosine-protein kinase CAK; CD_antigen: CD167a
Protein Family	Epithelial discoidin domain-containing receptor
UniProt Gene Name	DDR1
UniProt Synonym Gene Names	CAK; EDDR1; NEP; NTRK4; PTK3A; RTK6; TRKE; Epithelial discoidin domain receptor 1; MCK-10
UniProt Entry Name	DDR1_HUMAN
NCBI Protein Information	epithelial discoidin domain-containing receptor 1
NCBI Summary for DDR1	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]

UniProt Comments for DDR1	DDR1: Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing. Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing. Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Also plays a role in tumor cell invasion. Phosphorylates PTPN11. Interacts (via PPxY motif) with WWC1 (via WW domains) in a collagen-regulated manner. Forms a tripartite complex with WWC1 and PRKCZ, but predominantly in the absence of collagen. Interacts (tyrosine phosphorylated) with SHC1. Interacts with SRC. Interacts with MYH9. Interacts with CDH1. Interacts with PTPN11. Interacts with NCK2. Detected in T-47D, MDA-MB-175 and HBL-100 breast carcinoma cells, A-431 epidermoid carcinoma cells, SW48 and SNU-C2B colon carcinoma cells and Hs 294T melanoma cells. Expressed at low levels in most adult tissues and is highest in the brain, lung, placenta and kidney. Lower levels of expression are detected in melanocytes, heart, liver, skeletal muscle and pancreas. Abundant in breast carcinoma cell lines. In the colonic mucosa, expressed in epithelia but not in the connective tissue of the lamina propria. In the thyroid gland, expressed in the epithelium of the thyroid follicles. In pancreas, expressed in the islets of Langerhans cells, but not in the surrounding epithelial cells of the exocrine pancreas. In kidney, expressed in the epithelia of the distal tubules. Not expressed in connective tissue, endothelial cells, adipose tissue, muscle cells or cells of hematopoietic origin. Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, tyrosine (receptor); Protein kinase, TK; Kinase, protein; EC 2.7.10.1; Membrane protein, integral; TK group; DDR family Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: basolateral plasma membrane; extracellular space; integral to plasma membrane; plasma membrane; receptor complex Molecular Function: ATP binding; collagen binding; metal ion binding; protein binding; transmembrane receptor protein tyrosine kinase activity Biological Process: cell adhesion; ear development; embryo implantation; extracellular matrix organization and biogenesis; lactation; negative regulation of cell proliferation; organ regeneration; protein amino acid autophosphorylation; regulation of cell growth; regulation of cell-matrix adhesion; skin development; smooth muscle cell migration
Research Articles on DDR1	**1.** MT1-MMP-discoidin domain receptor 1 axis regulates collagen-induced apoptosis in breast cancer cells
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