

Rabbit DDR1 Polyclonal Antibody | anti-DDR1 antibody

Phospho-DDR1 (Tyr796) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329903	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (86%), Xenopus (100%)	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

DDR1; Polyclonal Antibody; Phospho-DDR1 (Tyr796) Antibody; CAK; CD 167; CD167; CD167 antigen-like family member A; CD167a; Cell adhesion kinase; DDR 1; DDR; DDR1_HUMAN; Discoidin domain receptor; Discoidin domain receptor tyrosine kinase 1; Discoidin receptor tyrosine kinase; Discoidin receptor tyrosine kinase isoform a; EDDR 1; EDDR1; Epithelial discoidin domain receptor 1; Epithelial discoidin domain-containing receptor 1; Epithelial specific receptor kinase; HGK2; Mammary carcinoma kinase 10; Mammary carcinoma kinase 10; MCK-10; MCK10; NEP; Neuroepithelial tyrosine kinase; Neurotrophic tyrosine kinase receptor type 4; NTRK 4; NTRK4; OTTHUMP00000029343; OTTHUMP00000029344; OTTHUMP00000029345; OTTHUMP00000029346; OTTHUMP00000029347; OTTHUMP00000164863; OTTHUMP00000164867; OTTHUMP00000222080; Protein-tyrosine kinase 3A; Protein-tyrosine kinase RTK-6; PTK 3; PTK 3A protein tyrosine kinase 3A; PTK3; PTK3A; Receptor tyrosine kinase NEP; RTK 6; RTK6; TRK E; TRKE; Tyrosine kinase DDR; Tyrosine kinase receptor E; Tyrosine-protein kinase CAK; anti-DDR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (86%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-DDR1 (Tyr796) Antibody detects endogenous levels of DDR1 only when phosphorylated at Tyr796. Tissue Specificity: 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 (at protein level). 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.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-DDR1 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DDR1 around the phosphorylation site of Tyr796.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylated in response to fibrillar collagen binding. Glycosylation of Asn-211, but apparently not of Asn-260 or Asn-394, prevents autophosphorylation from occurring in the absence of collagen.

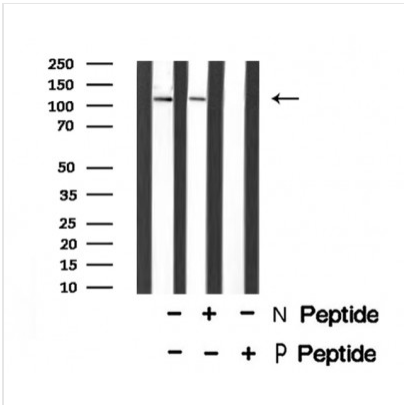
Subunit Structure	Homodimer. Interacts (via PPxY motif) with WWC1 (via WW domains) in a collagen-regulated manner. Forms a tripartite complex with WWC1 and PRKCZ, but predominantly in the absence of collagen. Interacts (tyrosine phosphorylated) with SHC1. Interacts with SRC. Interacts with MYH9. Interacts with CDH1. Interacts with PTPN11. Interacts with NCK2.
Similarity	The Gly/Pro-rich domains may be required for an unusual geometry of interaction with ligand or substrates.Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.
Subcellular Location	Cell membrane>Single-pass type I membrane protein. Cell membrane>Single-pass type I membrane protein. Secreted. Cell membrane>Single-pass type I membrane protein.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of DDR1 (Phospho-Tyr796) using MCF7 whole cell lysates.-/+ means absence or presence of N peptide¼non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-DDR1 antibody	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 (By similarity). Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Also plays a role in tumor cell invasion. Phosphorylates PTPN11.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	321400059
NCBI GeneID	780
NCBI Accession #	NP_001189450.1
NCBI GenBank Nucleotide #	NM_001202521.1
UniProt Accession #	Q08345; Q14196; Q16562; Q2L6H3; Q4LE50; Q5ST11; Q5ST12; Q6NSK4; Q9UD35; B5A975; B5A976; B7Z2K0
Molecular Weight	101,128 Da
NCBI Official Full Name	epithelial discoidin domain-containing receptor 1 isoform 4
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
NCBI Protein Information	epithelial discoidin domain-containing receptor 1; 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
UniProt Protein Name	Epithelial discoidin domain-containing receptor 1
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

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ddr1-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-western-blot-elisa/329903>