

Rabbit DDR2 Polyclonal Antibody | anti-DDR2 antibody

Anti-DDR2 Antibody

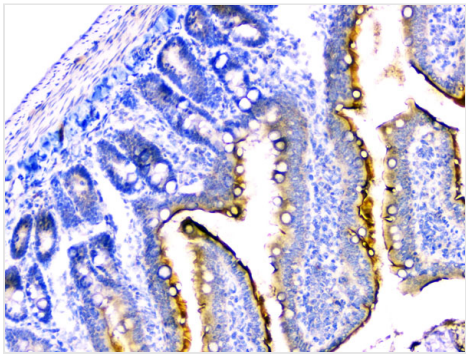
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124932	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

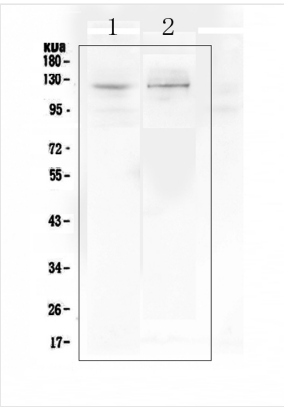
DDR2; Polyclonal Antibody; Anti-DDR2 Antibody; Discoidin domain-containing receptor 2; Discoidin domain receptor 2; CD167 antigen-like family member B; Discoidin domain-containing receptor tyrosine kinase 2; Neurotrophic tyrosine kinase; receptor-related 3; Receptor protein-tyrosine kinase TKT; Tyrosine-protein kinase TYRO10; CD167b; NTRKR3; TKT; TYRO10; Discoidin domain receptor tyrosine kinase 2; anti-DDR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	855
Applicable Applications for anti-DDR2 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human DDR2 recombinant protein (Position: T801-E855).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of DDR2 using anti-DDR2 antibody. DDR2 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DDR2 antibody. DDR2 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DDR2 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of DDR2 using anti-DDR2 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat kidney tissue lysates, Lane 2: mouse kidney tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DDR2 antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for DDR2 at approximately 120KD. The expected band size for DDR2 is at 97KD.

ADDITIONAL INFORMATION

Related Product Information for anti-DDR2 antibody	Description: Rabbit IgG polyclonal antibody for DDR2 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat. Background: Discoidin domain-containing receptor 2, also known as CD167b (cluster of differentiation 167b), is a protein that in humans is encoded by the DDR2 gene. This gene encodes a member of the discoidin domain receptor subclass of the receptor tyrosine kinase (RTKs) protein family. RTKs play a key role in the communication of cells with their microenvironment. The encoded protein is a collagen-induced receptor that activates signal transduction pathways involved in cell adhesion, proliferation, and extracellular matrix remodeling. This protein is expressed in numerous cell types and may also be involved in wound repair and regulate tumor growth and invasiveness. Mutations in this gene are the cause of short limb-hand type spondylometaphyseal dysplasia.
References	1. Bargal, R., Cormier-Daire, V., Ben-Neriah, Z., Le Merrer, M., Sosna, J., Melki, J., Zangen, D. H., Smithson, S. F., Borochowitz, Z., Belostotsky, R., Raas-Rothschild, A. Mutations in DDR2 gene cause SMED with short limbs and abnormal calcifications. Am. J. Hum. Genet. 84: 80-84, 2009. 2. Borochowitz, Z., Langer, L. O., Jr., Gruber, H. E., Lachman, R., Katznelson, M. B.-M., Rimoin, D. L. Spondylo-meta-epiphyseal dysplasia (SMED), short limb-hand type: a congenital familial skeletal dysplasia with distinctive features and histopathology. Am. J. Med. Genet. 45: 320-326, 1993. 3. Labrador, J. P., Azcoitia, V., Tuckermann, J., Lin, C., Olaso, E., Manes, S., Bruckner, K., Goergen, J.-L., Lemke, G., Yancopoulos, G., Angel, P., Martinez-A, C., Klein, R. The collagen receptor DDR2 regulates proliferation and its elimination leads to dwarfism. EMBO J. 2: 446-452, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62420886
NCBI GeneID	4921
NCBI Accession #	NP_001014796.1
NCBI GenBank Nucleotide #	NM_001014796.2
UniProt Accession #	Q16832; Q7Z730
Molecular Weight	96,736 Da
NCBI Official Full Name	discoidin domain-containing receptor 2

NCBI Official Synonym Full Names	discoidin domain receptor tyrosine kinase 2
NCBI Official Symbol	DDR2
NCBI Official Synonym Symbols	TKT; MIG20a; NTRKR3; TYRO10
NCBI Protein Information	discoidin domain-containing receptor 2
UniProt Protein Name	Discoidin domain-containing receptor 2
UniProt Gene Name	DDR2
UniProt Synonym Gene Names	NTRKR3; TKT; TYRO10; Discoidin domain receptor 2

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/ddr2-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/124932>