Datasheet for ABIN6719481

anti-DDR2 antibody (AA 801-855)

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Overview

Quantity:	100 µg
Target:	DDR2
Binding Specificity:	AA 801-855
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDR2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-DDR2 Antibody Picoband®
Immunogen:	E. coli-derived human DDR2 recombinant protein (Position: T801-E855).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-DDR2 Antibody Picoband® (ABIN6719481). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DDR2
Alternative Name:	DDR2 (DDR2 Products)
Background:	Synonyms: 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, DDR2, NTRKR3, TKT, TYRO10 Tissue Specificity: Detected in osteocytes, osteoblastic cells in subchondral bone, bone lining cells, tibia and cartilage (at protein level). Detected at high levels in heart and lung, and at low levels in brain, placenta, liver, skeletal muscle, pancreas, and kidney. 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 alos be involved in wound repair and regulate tumor growth and invasiveness. Mutations in this gene are the cause of short limb-hand type spondylometaepiphyseal dysplasia.
Molecular Weight:	120 kDa
Gene ID:	4921
UniProt:	Q16832
Pathways:	RTK Signaling

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunocytochemistry/Immunofluorescence, 5 µg/mL Flow Cytometry(Fixed), 1-3 µg/1x10^6 cells ELISA, 0.1-0.5 µg/mL

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

Application Details

	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.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.