

DDR2 Antibody(Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2058a

Specification

DDR2 Antibody(Ascites) - Product Information

Application WB, IHC-P,E Primary Accession Q16832

Other Accession NP 001014796.1

Reactivity
Host
Clonality
Host
Mouse
Clonality
Isotype
IgG1
Antigen Region
Muse
290-320

DDR2 Antibody(Ascites) - Additional Information

Gene ID 4921

Other Names

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

Target/Specificity

This DDR2 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 290-320 amino acids from human DDR2.

Dilution

WB~~1:100~1600 IHC-P~~1:200

E~~Use at an assay dependent concentration.

Format

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DDR2 Antibody(Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

DDR2 Antibody(Ascites) - Protein Information

Name DDR2





Synonyms NTRKR3, TKT, TYRO10

Function Tyrosine kinase involved in the regulation of tissues remodeling (PubMed:30449416). It functions as a cell surface receptor for fibrillar collagen and regulates cell differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation. Required for normal bone development. Regulates osteoblast differentiation and chondrocyte maturation via a signaling pathway that involves MAP kinases and leads to the activation of the transcription factor RUNX2. Regulates remodeling of the extracellular matrix by up- regulation of the collagenases MMP1, MMP2 and MMP13, and thereby facilitates cell migration and tumor cell invasion. Promotes fibroblast migration and proliferation, and thereby contributes to cutaneous wound healing.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

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

DDR2 Antibody(Ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DDR2 Antibody(Ascites) - Images



Immunohistochemical analysis of paraffin-embedded Human lung section using Pink1(Cat#am2058a). am2058a was diluted at 1:200 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Image not found: 201203/AM2058a wb 1.jpg

DDR2 Antibody (Cat. #AM2058a) western blot analysis in HepG2 cell line lysates (35µg/lane). This demonstrates the DDR2 antibody detected the DDR2 protein (arrow).



DDR2 Antibody(Ascites) - Background

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].

DDR2 Antibody(Ascites) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010):
Ali, B.R., et al. Hum. Mol. Genet. 19(11):2239-2250(2010)
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Ehret, G.B., et al. Eur. J. Hum. Genet. 17(12):1650-1657(2009)
Su, J., et al. Mol. Cell. Biochem. 330 (1-2), 141-152 (2009):