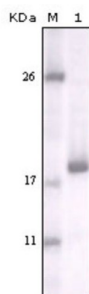
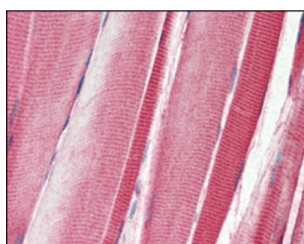


## Discoidin Domain Receptor Tyrosine Kinase 2 (DDR2) Antibody

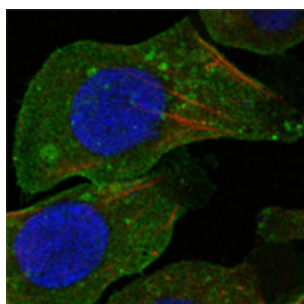
Catalogue No.: abx010632



Western blot analysis using DDR2 antibody against truncated DDR2 recombinant protein.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissues using DDR2 antibody.



Confocal immunofluorescence analysis of A549 cells using DDR2 antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

DDR2 (discoidin domain receptor family, member 2) is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. 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.

**Target:** Discoidin Domain Receptor Tyrosine Kinase 2 (DDR2)

**Clonality:** Monoclonal

**Reactivity:** Human

# Datasheet

Version: 6.0.0  
Revision date: 11 Jun 2025



<b>Tested Applications:</b>	ELISA, IHC, IF/ICC
<b>Host:</b>	Mouse
<b>Recommended dilutions:</b>	ELISA: 1/10000, IHC: 1/200 - 1/1000, IF/ICC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.
<b>Conjugation:</b>	Unconjugated
<b>Immunogen:</b>	Purified recombinant fragment of human DDR2 expressed in E. coli.
<b>Isotype:</b>	IgG <sub>2a</sub>
<b>Form:</b>	Liquid
<b>Purification:</b>	Unpurified ascites.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
<b>UniProt Primary AC:</b>	Q16832 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )
<b>Gene Symbol:</b>	DDR2
<b>GeneID:</b>	<a href="#">4921</a>
<b>OMIM:</b>	<a href="#">191311</a>
<b>HGNC:</b>	2731
<b>KEGG:</b>	hsa:4921
<b>Ensembl:</b>	ENSG00000162733
<b>String:</b>	<a href="#">9606.ENSP00000356899</a>
<b>Molecular Weight:</b>	97 kDa
<b>Buffer:</b>	Ascitic fluid containing 0.03% sodium azide.
<b>Concentration:</b>	Not determined.
<b>Note:</b>	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.