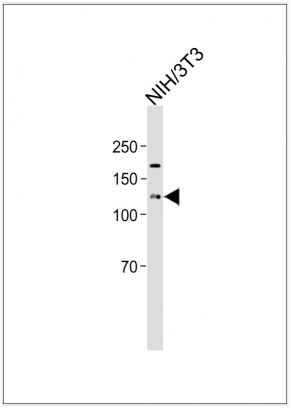
ROR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ROR1, Polyclonal Antibody
Full Product Name	ROR1 antibody (C-term)
Product Gene Name	anti-ROR1 antibody
Product Synonym Names	Inactive tyrosine-protein kinase transmembrane receptor ROR1; Neurotrophic tyrosine kinase; receptor-related 1; ROR1; NTRKR1; R03086
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Specificity	This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from human.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	937
OMIM	602336
3D Structure	ModBase 3D Structure for Q01973
Antigen Source	Human
Antigen Type	Recombinant Protein
Product Categories/Family for anti-ROR1 antibody	New Antibodies; Primary Antibodies; Neuroscience; Signal Transduction
Applications Tested/Suitable for anti-ROR1 antibody	Western Blot (WB)
Related Product Information for anti-ROR1 antibody	Has very low kinase activity in vitro and is unlikely to function as a tyrosine kinase in vivo (PubMed:25029443). Receptor for ligand WNT5A which activate downstream NFkB signaling pathway and may result in the inhibition of WNT3A-mediated signaling (PubMed:25029443, PubMed:27162350). In inner ear, crucial for spiral ganglion neurons to innervate auditory hair cells (PubMed:27162350).
Product References and Citations for anti-ROR1 antibody	Masiakowski P.,et al.J. Biol. Chem. 267:26181-26190 (1992).Reddy U.R.,et al.Oncogene 13:1555-1559 (1996).Gregory S.G.,et al.Nature 441:315-321 (2006).Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.Bainbridge T.W.,et al.PLoS ONE 9:E102695-E102695 (2014).
Other Notes	Small volumes of anti-ROR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ROR1 purchase	MBS9247961 is an antibody targeting ROR1. Also known as ROR1 antibody (C-term). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-ROR1 antibody
All lanes: Anti-ROR1 antibody (C-term) at 1:1000 dilution + NIH/3T3 whole cell lysateLysates/proteins at 20 ug per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 120 KDaBlocking/Dilution buffer: 5% NFDM/TBST.Dilution: WB 1:1000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ROR1. It may not necessarily be applicable to this product.

NCBI GI #	118572711
NCBI GeneID	4919
NCBI Accession #	Q01973.2
UniProt Primary Accession #	Q01973
UniProt Secondary Accession #	Q5VVX6; Q66K77; Q92776
UniProt Related Accession #	Q01973
NCBI Official Full Name	Tyrosine-protein kinase transmembrane receptor ROR1
NCBI Official Synonym Full Names	receptor tyrosine kinase-like orphan receptor 1
NCBI Official Symbol	ROR1
NCBI Official Synonym Symbols	NTRKR1; dJ537F10.1
UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR1
UniProt Synonym Protein Names	Neurotrophic tyrosine kinase, receptor-related 1
Protein Family	Inactive tyrosine-protein kinase transmembrane receptor
UniProt Gene Name	ROR1
UniProt Synonym Gene Names	NTRKR1
UniProt Entry Name	ROR1_HUMAN
NCBI Protein Information	tyrosine-protein kinase transmembrane receptor ROR1; neurotrophic tyrosine kinase, receptor-related 1
NCBI Summary for ROR1	This gene encodes a receptor tyrosine kinase-like orphan receptor that modulates neurite growth in the central nervous system. The encoded protein is a glycosylated type I membrane protein that belongs to the ROR subfamily of cell surface receptors. It is a pseudokinase that lacks catalytic activity and may interact with the non-canonical Wnt signalling pathway. This gene is highly expressed during early embryonic development but expressed at very low levels in adult tissues. Increased expression of this gene is associated with B-cell chronic lymphocytic leukaemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2012]

UniProt Comments for ROR1	ROR1: Tyrosine-protein kinase receptor whose role is not yet clear. Expressed strongly in human heart, lung and kidney, but weakly in the CNS. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm. Belongs to the protein kinase superfamily. Tyr protein kinase family. ROR subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.10.1; Protein kinase, tyrosine (receptor); Membrane protein, integral; Protein kinase, TK; Kinase, protein; TK group; Ror family Chromosomal Location of Human Ortholog: 1p31.3 Cellular Component: integral to plasma membrane; cytoplasm; plasma membrane; receptor complex Molecular Function: Wnt-protein binding; protein binding; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: peptidyl-tyrosine phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on ROR1	**1.** Data shows that ROR1 and ROR2 are inversely expressed in melanomas and negatively regulate each other. Also, hypoxia initiates a shift of ROR1-positive melanomas to a more invasive, ROR2-positive phenotype.
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