ROR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ROR1, Polyclonal Antibody
Full Product Name	ROR1 Antibody FITC-Conjugated
Product Gene Name	anti-ROR1 antibody
Product Synonym Names	dJ537F10.1; MGC99659; Neurotrophic tyrosine kinase; Receptor tyrosine kinase like orphan receptor 1; receptor-related 1; RGD1559469; RP11 24J23.1; Tyrosine kinase like orphan receptor 1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Monkey, Mouse, Rat
Form/Format	FITC-Conjugated
Concentration	0.55-0.75 ug/ul in antibody stabilization buffer (lot specific)
Specificity	This antibody does not cross react to any other cellular protein.
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: ROR1 (MBS544742) Positive Control: ROR1 (MBS543208)
Antibody/Peptide Pairs	ROR1 peptide (MBS544396) is used for blocking the activity of ROR1 antibody (MBS544742)
Molecular Weight	43,826 Da
OMIM	602336
Immunogen	Synthetic peptide corresponding to C terminal amino acids 900-918 on Human ROR1 protein. Peptide was coupled to a carrier protein using heterobifunctional cross linker. Sequence: TVKGNKSQKPYKIDSKQAS
Expression	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.
Molecular Function	ATP binding; transmembrane receptor protein Tyrosine kinase activity; Wnt-protein binding
Structure	Contains 1 FZ (frizzled) domain; Contains 1 Ig-like C2-type (immunoglobulin-like) domain; Contains 1 Kringle domain; Contains 1 Protein kinase domain
Subcellular Location	Membrane; Single-pass type I membrane protein
Applications Tested/Suitable for anti-ROR1 antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-ROR1 antibody	Dot Blot: 1:10,000 ELISA: 1:10,000 Immunoprecipitation: 1:200 Western Blot: 1:500
Related Product Information for anti-ROR1 antibody	FITC-Conjugated Receptor tyrosine kinase-like orphan receptor 1 Antibody Tyrosine-protein kinase receptor whose role is not yet clear.

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	MBS544742 is an antibody targeting ROR1. Also known as ROR1 Antibody FITC-Conjugated. Reactive in Human, Monkey, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	119626962
NCBI GeneID	4919
NCBI Accession #	EAX06557.1
UniProt Secondary Accession #	Q5VVX6; Q66K77; Q92776
UniProt Related Accession #	Q01973
NCBI Official Full Name	receptor tyrosine kinase-like orphan receptor 1, isoform CRA_c
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	Inactive 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	inactive tyrosine-protein kinase transmembrane receptor ROR1
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: Membrane protein, integral; EC 2.7.10.1; Kinase, protein; Protein kinase, tyrosine (receptor); Protein kinase, TK; TK group; Ror family Chromosomal Location of Human Ortholog: 1p31.3 Cellular Component: cytoplasm; integral to plasma membrane; plasma membrane; receptor complex Molecular Function: ATP binding; protein binding; transmembrane receptor protein tyrosine kinase activity; Wnt-protein binding Biological Process: peptidyl-tyrosine phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; Wnt receptor signaling pathway, planar cell polarity pathway

Research Articles on ROR1	**1.** Both IGF1R and ROR1 can be effectively targeted by SB modified CAR T cells.
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