ROR1 Antibody

PRODUCT OVERVIEW

Product Name	ROR1, Antibody
Full Product Name	PE-conjugated Anti-ROR1 (NBE 002 biosimilar) mAb
Product Gene Name	anti-ROR1 antibody
Product Synonym Names	NTRKR1; PNU-159682-anti-ROR1 antibody drug conjugate
Isotype	IgG1
Host	Humanized
Species Reactivity	Human
Form/Format	Liquid, PBS with 0.05% Proclin300, 364% BSA
Preparation and Storage	Store at 2 degree C-8 degree C fo 6 months
Molecular Weight	937
OMIM	602336
3D Structure	ModBase 3D Structure for Q01973
Conjugation	PE-conjugated
Product Categories/Family for anti-ROR1 antibody	Biosimilar reference antibodies
Applications Tested/Suitable for anti-ROR1 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-ROR1 antibody	FC/FACS: 1:100
Related Product Information for anti-ROR1 antibody	MBS1880745 is an antibody targeting ROR1. Also known as PE-conjugated Anti-ROR1 (NBE 002 biosimilar) mAb. Reactive in Human. Host: Humanized.
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.

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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