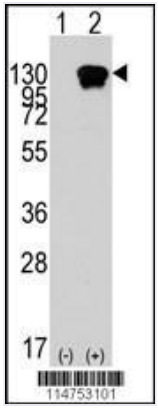
ROR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

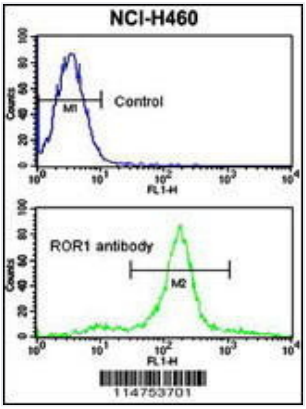
Product Name	ROR1, Polyclonal Antibody
Full Product Name	ROR1 (ROR1, NTRKR1, Tyrosine-protein kinase transmembrane receptor ROR1, Neurotrophic tyrosine kinase, receptor-related 1) (MaxLight 550)
Product Gene Name	anti-ROR1 antibody
Product Synonym Names	ROR1; NTRKR1; Tyrosine-protein kinase transmembrane receptor ROR1; Neurotrophic tyrosine kinase; receptor-related 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human ROR1. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	937
OMIM	602336
3D Structure	ModBase 3D Structure for Q01973
Immunogen	Recombinant protein mapping to a fragment of residues within amino acids 112-39 human ROR1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ROR1 antibody	Antibodies; Transmembrane Proteins
Applications Tested/Suitable for anti-ROR1 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-ROR1 antibody	IHC-P: Formalin fixed paraffin embedded. Requires HIER using sodium citrate buffer pH6.0 prior to staining. Applications are based on unconjugated antibody.
Related Product Information for anti-ROR1 antibody	MBS6343101 is an antibody targeting ROR1. Also known as ROR1 (ROR1, NTRKR1, Tyrosine-protein kinase transmembrane receptor ROR1, Neurotrophic tyrosine kinase, receptor-related 1) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ROR1 antibody	1. Nomi, M., et al., Mol. Cell. Biol. 21(24):8329-8335 (2001). 2. Reddy, U.R., et al., Genomics 41(2):283-285 (1997). 3. Reddy, U.R., et al., Oncogene 13(7):1555-1559 (1996). 4. Masiakowski, P., et al., J. Biol. Chem. 267(36):26181-26190 (1992).
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.



Western Blot (WB) of anti-ROR1 antibody
Western Blot analysis of ROR1 in 293 cell lysates (2ug/lane) using 041166. Lane 1: nontransfected Lane 2: transiently transfected with the ROR1 gene



Immunohistochemistry (IHC) of anti-ROR1 antibody
Immunohistochemistry analysis of formalin fixed and paraffin embedded human lung carcimona using 041166 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of 041166 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-ROR1 antibody
Flow Cytometric analysis of NCI-H460 cells using 041166 (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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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