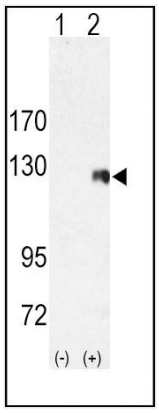
ROR2 Antibody – Rabbit Polyclonal

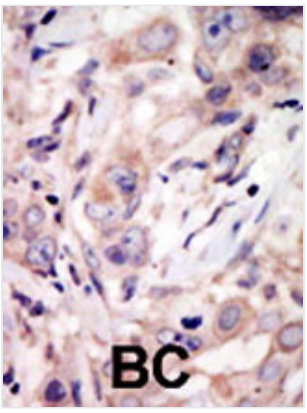
PRODUCT OVERVIEW

Product Name	ROR2, Polyclonal Antibody
Full Product Name	ROR2, CT (Tyrosine-protein Kinase Transmembrane Receptor ROR2, Neurotrophic Tyrosine Kinase, Receptor-related 2, NTRKR2) (FITC)
Product Gene Name	anti-ROR2 antibody
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human ROR2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	943
OMIM	phenotype 602337
3D Structure	ModBase 3D Structure for Q01974
Immunogen	Synthetic peptide selected from the C-terminal region of human ROR2 (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ROR2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ROR2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ROR2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-ROR2 antibody	MBS6498162 is an antibody targeting ROR2. Also known as ROR2, CT (Tyrosine-protein Kinase Transmembrane Receptor ROR2, Neurotrophic Tyrosine Kinase, Receptor-related 2, NTRKR2) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ROR2 antibody	1. Afzal, A.R., et al., Nat. Genet. 25(4):419-422 (2000). 2. Oldridge, M., et al., Nat. Genet. 24(3):275-278 (2000). 3. van Bokhoven, H., et al., Nat. Genet. 25(4):423-426 (2000). 4. Schwabe, G.C., et al., Am. J. Hum. Genet. 67(4):822-831 (2000). 5. Masiakowski, P., et al., J. Biol. Chem. 267(36):26181-26190 (1992).

Other Notes	Small volumes of anti-ROR2 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-ROR2 antibody
Western blot analysis of ROR2 (arrow) using rabbit polyclonal ROR2 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ROR2 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-ROR2 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ROR2. It may not necessarily be applicable to this product.

NCBI GI #	90110767
NCBI GeneID	4920
NCBI Accession #	Q01974.2
UniProt Primary Accession #	Q01974
UniProt Secondary Accession #	Q59GF5; Q5SPI5; Q9HAY7; Q9HB61
UniProt Related Accession #	Q01974
NCBI Official Full Name	Tyrosine-protein kinase transmembrane receptor ROR2
NCBI Official Synonym Full Names	receptor tyrosine kinase-like orphan receptor 2
NCBI Official Symbol	ROR2
NCBI Official Synonym Symbols	BDB; BDB1; NTRKR2
UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR2
UniProt Synonym Protein Names	Neurotrophic tyrosine kinase, receptor-related 2
Protein Family	Tyrosine-protein kinase transmembrane receptor
UniProt Gene Name	ROR2
UniProt Synonym Gene Names	NTRKR2
UniProt Entry Name	ROR2_HUMAN
NCBI Protein Information	tyrosine-protein kinase transmembrane receptor ROR2; neurotrophic tyrosine kinase receptor-related 2

NCBI Summary for ROR2	The protein encoded by this gene is a receptor protein tyrosine kinase and type I transmembrane protein that belongs to the ROR subfamily of cell surface receptors. The protein may be involved in the early formation of the chondrocytes and may be required for cartilage and growth plate development. Mutations in this gene can cause brachydactyly type B, a skeletal disorder characterized by hypoplasia/aplasia of distal phalanges and nails. In addition, mutations in this gene can cause the autosomal recessive form of Robinow syndrome, which is characterized by skeletal dysplasia with generalized limb bone shortening, segmental defects of the spine, brachydactyly, and a dysmorphic facial appearance. [provided by RefSeq, Jul 2008]
UniProt Comments for ROR2	ROR2: a receptor tyrosine kinase of the ROR family. May be involved in the early formation of the chondrocytes and may be required for cartilage and growth plate development. Mutations can cause brachydactyly type B, a skeletal disorder characterized by hypoplasia/aplasia of distal phalanges and nails. In addition, mutations in this gene can cause the autosomal recessive form of Robinow syndrome, which is characterized by skeletal dysplasia with generalized limb bone shortening, segmental defects of the spine, brachydactyly, and a dysmorphic facial appearance. Protein type: Protein kinase, TK; Membrane protein, integral; Kinase, protein; Protein kinase, tyrosine (receptor); EC 2.7.10.1; TK group; Ror family Chromosomal Location of Human Ortholog: 9q22 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: Wnt-protein binding; protein binding; frizzled binding; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: somitogenesis; inner ear morphogenesis; peptidyl-tyrosine phosphorylation; Wnt receptor signaling pathway, planar cell polarity pathway; multicellular organismal development; positive regulation of transcription, DNA-dependent; signal transduction; negative regulation of cell proliferation; Wnt receptor signaling pathway, calcium modulating pathway; JNK cascade; cell differentiation; transmembrane receptor protein tyrosine kinase signaling pathway; cartilage condensation; embryonic genitalia morphogenesis; positive regulation of cell migration Disease: Robinow Syndrome, Autosomal Recessive; Brachydactyly, Type B1
Research Articles on ROR2	**1.** report a three-generation Chinese family with dominant inheritance of the BDB1 limb phenotype. Sequence analysis identified a novel heterozygous base deletion (c.1396-1398delAA) in the gene ROR2 in all affected family members
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