

Rabbit anti-Human ROR2 Polyclonal Antibody | anti-ROR2 antibody

ROR2 Antibody (N-term)

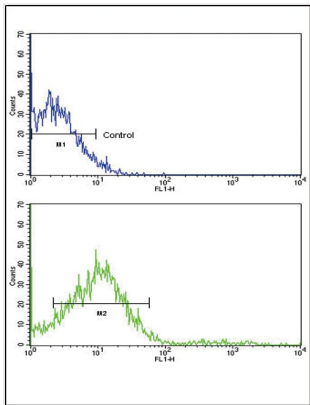
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284401	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

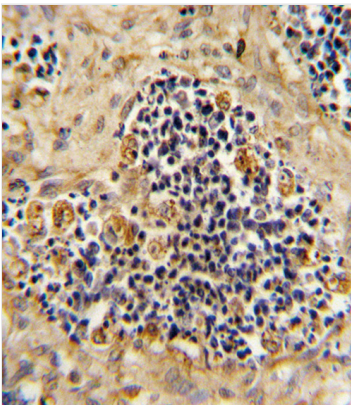
ROR2; Polyclonal Antibody; ROR2 Antibody (N-term); Tyrosine-protein kinase transmembrane receptor ROR2; Neurotrophic tyrosine kinase; receptor-related 2; NTRKR2; anti-ROR2 antibody

PRODUCT SPECIFICATIONS

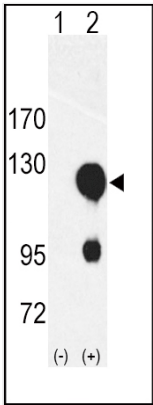
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	This ROR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-50 amino acids from the N-terminal region of human ROR2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	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.
Sequence Positions	19-50
Sequence Length	943
Applicable Applications for anti-ROR2 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Function	Tyrosine-protein kinase receptor which may be involved in the early formation of the chondrocytes. It seems to be required for cartilage and growth plate development (By similarity). Phosphorylates YWHAB, leading to induction of osteogenesis and bone formation (PubMed:17717073). In contrast, has also been shown to have very little tyrosine kinase activity in vitro. May act as a receptor for wnt ligand WNT5A which may result in the inhibition of WNT3A-mediated signaling (PubMed:25029443).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of NCI-H292 cells using ROR2 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human kidney carcinoma reacted with ROR2 Antibody (N-term), 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.



WB (Western Blot)
Western blot analysis of ROR2 (arrow) using rabbit polyclonal ROR2 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ROR2 gene (Lane 2) (Origene Technologies).

ADDITIONAL INFORMATION

Related Product Information for anti-ROR2 antibody	ROR2 is a tyrosine-protein kinase receptor which may be involved in the early formation of the chondrocytes. It seems to be required for cartilage and growth plate development. This Type I membrane protein is expressed at high levels during early embryonic development. The expression levels drop strongly around day 16 and there are only very low levels in adult tissues. Defects in ROR2 are a cause of brachydactyly type B1 (BDB1). BDB1 is an autosomal dominant skeletal disorder characterized by hypoplasia/aplasia of distal phalanges and nails. In BDB1 the middle phalanges are short but in addition the terminal phalanges are rudimentary or absent. Both fingers and toes are affected. The thumbs and big toes are usually deformed. Defects in ROR2 are a cause of recessive Robinow syndrome (RRS). RRS is an autosomal disorder characterized by skeletal dysplasia with generalized limb bone shortening, segmental defects of the spine, brachydactyly and a dysmorphic facial appearance. The protein contains 1 frizzled (FZ) domain, 1 immunoglobulin-like C2-type domain, and 1 kringle domain.
Product Categories/Family for anti-ROR2 antibody	Signal Transduction
References	Afzal, A.R., et al., Nat. Genet. 25(4):419-422 (2000). Oldridge, M., et al., Nat. Genet. 24(3):275-278 (2000). van Bokhoven, H., et al., Nat. Genet. 25(4):423-426 (2000). Schwabe, G.C., et al., Am. J. Hum. Genet. 67(4):822-831 (2000). Masiakowski, P., et al., J. Biol. Chem. 267(36):26181-26190 (1992).

NCBI AND UNIPROT INFORMATION

NCBI GI #	19743898
NCBI GeneID	4920
NCBI Accession #	NP_004551.2
NCBI GenBank Nucleotide #	NM_004560.3
UniProt Accession #	Q01974; Q59GF5; Q5SPI5; Q9HAY7; Q9HB61
Molecular Weight	104757
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
NCBI Protein Information	tyrosine-protein kinase transmembrane receptor ROR2
UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR2
UniProt Gene Name	ROR2
UniProt Synonym Gene Names	NTRKR2
UniProt Entry Name	ROR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ror2-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/284401>