

ROR2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7672b

Product Information

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|--------------------------|------------------------|
| Application | WB, IHC-P, E |
| Primary Accession | Q01974 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB01510 |
| Calculated MW | 104757 |
| Antigen Region | 915-943 |

Additional Information

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|---------------------------|---|
| Gene ID | 4920 |
| Other Names | Tyrosine-protein kinase transmembrane receptor ROR2, Neurotrophic tyrosine kinase, receptor-related 2, ROR2, NTRKR2 |
| Target/Specificity | This ROR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 915-943 amino acids from the C-terminal region of human ROR2. |
| Dilution | WB~~1:2000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| 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. |
| 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. |
| Precautions | ROR2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-----------------|--|
| Name | ROR2 |
| Synonyms | NTRKR2 |
| 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

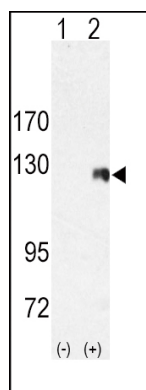
Background

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.

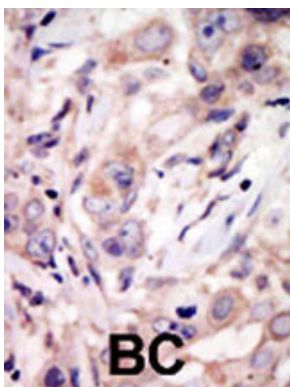
References

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Oldridge, M., et al., Nat. Genet. 24(3):275-278 (2000).
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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).

Images



Western blot analysis of ROR2 (arrow) using rabbit polyclonal ROR2 Antibody (C-term) (Cat.#AP7672b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ROR2 gene (Lane 2) (Origene Technologies).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.