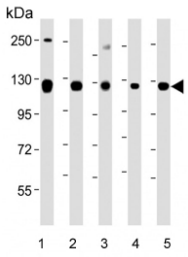
ROR2 Antibody (F54941)

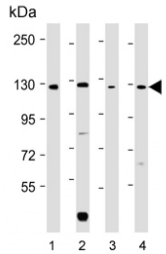
Catalog No.	Formulation	Size
F54941-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54941-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

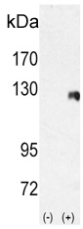
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q01974
Applications	Immunohistochemistry (FFPE): 1:50-1:100 Western blot: 1:500-1:1000
Limitations	This ROR2 antibody is available for research use only.



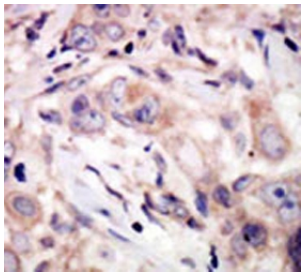
Western blot testing of human 1) HeLa, 2) K562, 3) NCCIT, 4) SH-SY5Y and 5) T-47D cell lysate with ROR2 antibody. Expected molecular weight: 105-130 kDa.



Western blot testing of human 1) HeLa, 2) K562, 3) T-47D and 4) mouse NIH 3T3 cell lysate with ROR2 antibody. Expected molecular weight: 105-130 kDa.



Western blot testing of 1) non-transfected and 2) transfected 293 cell lysate with ROR2 antibody.



IHC testing of FFPE human cancer tissue with ROR2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ROR2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 915-943 from the human protein was used as the immunogen for the ROR2 antibody.

Storage

Aliquot the ROR2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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