

ROR1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7671D

Specification

ROR1 Antibody - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	Q01973
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

ROR1 Antibody - Additional Information

Gene ID 4919

Other Names

Tyrosine-protein kinase transmembrane receptor ROR1, Neurotrophic tyrosine kinase, receptor-related 1, ROR1, NTRKR1

Target/Specificity

This ROR1 antibody is generated from rabbits immunized with recombinant human ROR1 protein (aa region: 112 - 399).

Dilution

WB~~1:4000
IHC-P~~1:100
FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

ROR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ROR1 Antibody - Protein Information

Name ROR1

Synonyms NTRKR1

Function Has very low kinase activity in vitro and is unlikely to function as a tyrosine kinase in

vivo (PubMed:[25029443](#)). Receptor for ligand WNT5A which activate downstream NFkB signaling pathway and may result in the inhibition of WNT3A-mediated signaling (PubMed:[25029443](#), PubMed:[27162350](#)). In inner ear, crucial for spiral ganglion neurons to innervate auditory hair cells (PubMed:[27162350](#)). Via IGFBP5 ligand, forms a complex with ERBB2 to enhance CREB oncogenic signaling (PubMed:[36949068](#)).

Cellular Location

Membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q9Z139}

Tissue Location

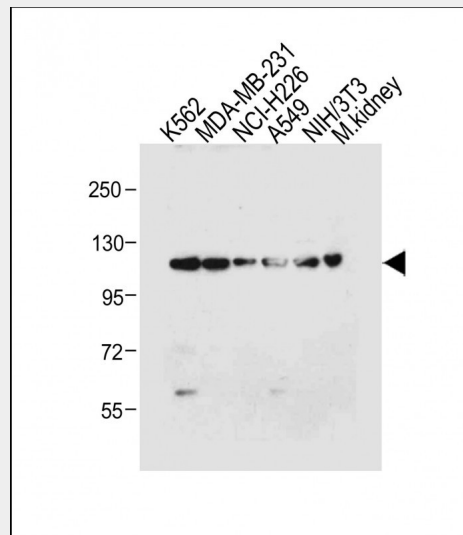
Expressed strongly in human heart, lung and kidney, but weakly in the CNS. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm

ROR1 Antibody - Protocols

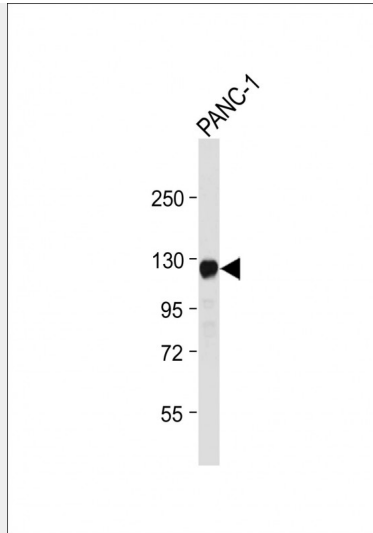
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

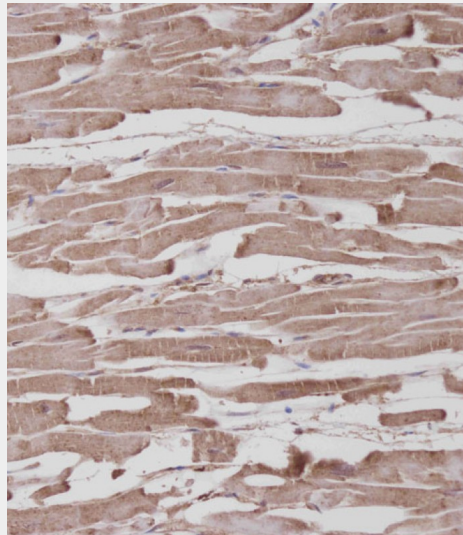
ROR1 Antibody - Images



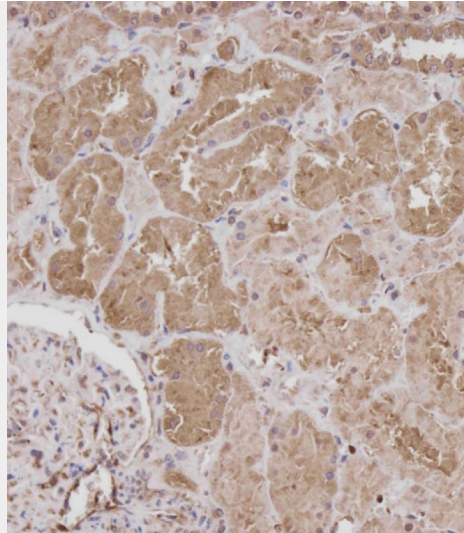
All lanes : Anti-ROR1 Antibody at 1:4000 dilution Lane 1: K562 whole cell lysate Lane 2: MDA-MB-231 whole cell lysate Lane 3: NCI-H226 whole cell lysate Lane 4: A549 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: Mouse kidney tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 104 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



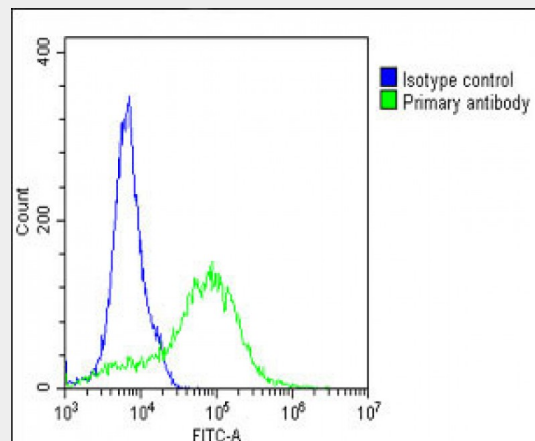
Anti-ROR1 Antibody at 1:4000 dilution + PANC-1 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 104 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemical analysis of AP7671d on paraffin-embedded Human heart tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9.0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of AP7671d on paraffin-embedded Human kidney tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing A549 cells stained with AP7671d (green line). The cells were fixed with 2% paraformaldehyde (10 min). The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP7671d, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

ROR1 Antibody - Background

ROR1 is a receptor protein tyrosine kinase whose cellular role has not been determined. It is a type I membrane protein and belongs to the ROR subfamily of cell surface receptors. Studies of a similar protein in mouse suggest that this protein may interact with another receptor protein tyrosine kinase and may be involved in skeletal and cardiac development.

ROR1 Antibody - References

Nomi, M., et al., Mol. Cell. Biol. 21(24):8329-8335 (2001).
Reddy, U.R., et al., Genomics 41(2):283-285 (1997).

Reddy, U.R., et al., Oncogene 13(7):1555-1559 (1996).

Masiakowski, P., et al., J. Biol. Chem. 267(36):26181-26190 (1992).

ROR1 Antibody - Citations

- [Frizzled 1 and Wnt1 as new potential therapeutic targets in the traumatically injured spinal cord](#)