10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ROR1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5449

Specification

ROR1 Antibody - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q01973
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=104,43,44 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

ROR1 Antibody - Additional Information

Gene ID 4919

Antigen Region
112-399

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

Dilution
WB~~1:1000
IHC-P~~1:25
FC~~1:25

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

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

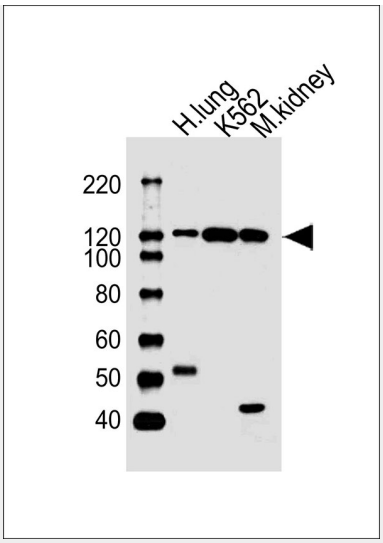
ROR1 Antibody - Protocols

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

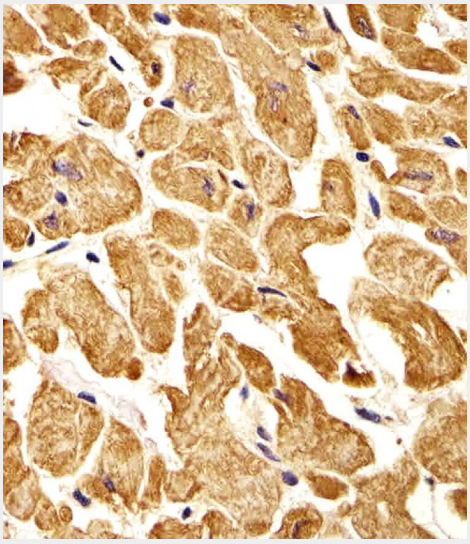
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ROR1 Antibody - Images

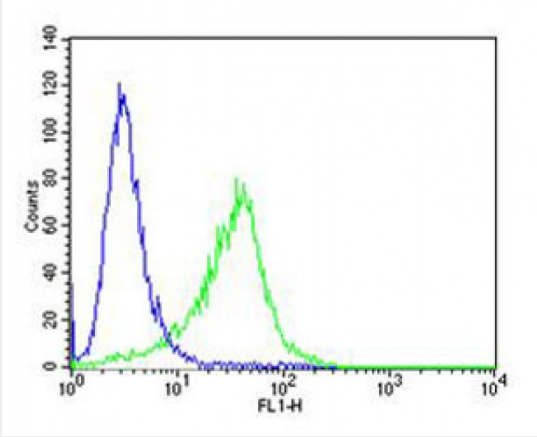
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



All lanes : Anti-ROR1 Antibody at 1:1000 dilution Lane 1: human lung lysates Lane 2: K562 whole cell lysates Lane 3: mouse kidney lysates 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% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded H. heart section using ROR1 Antibody (Cat#AW5449). AW5449 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Flow cytometric analysis of A549 cells using ROR1 Antibody (green, Cat#AP7671d) compared to an isotype control of rabbit IgG(blue). AP7671d was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

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).