

**ROR1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7671a****Specification**

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**ROR1 Antibody (N-term) - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">Q01973</a>
Reactivity	<b>Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>104283</b>
Antigen Region	<b>32-62</b>

**ROR1 Antibody (N-term) - 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 a KLH conjugated synthetic peptide between 32-62 amino acids from the N-terminal region of human ROR1.

**Dilution**

WB~~1:1000

FC~~1:10~50

**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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ROR1 Antibody (N-term) - 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

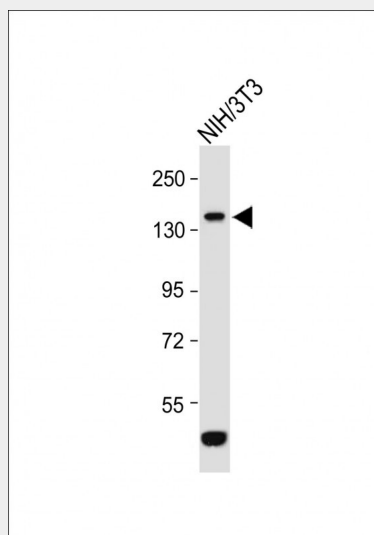
Expressed strongly in human heart, lung and kidney, but weakly in the CNS. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm

### ROR1 Antibody (N-term) - Protocols

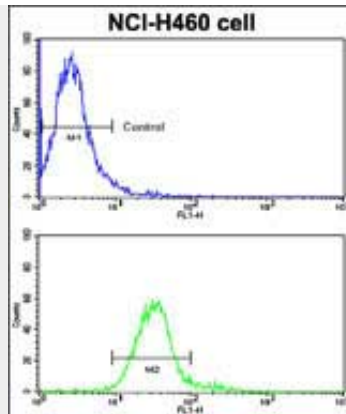
Provided below are standard protocols that you may find useful for product applications.

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

### ROR1 Antibody (N-term) - Images



Anti-ROR1 Antibody (N-term) at 1:1000 dilution + NIH/3T3 whole cell 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% NFDM/TBST.



Flow cytometric analysis of NCI-H460 cells using ROR1 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.

### **ROR1 Antibody (N-term) - 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 (N-term) - 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).