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ROR1 Antibody Blocking Peptide

Synthetic peptide

Catalog # BP7671d

Specification

ROR1 Antibody Blocking Peptide - Product Information

Primary Accession Q01973

ROR1 Antibody Blocking Peptide - Additional Information

Gene ID 4919

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7671d was selected from the region of human ROR1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ROR1 Antibody Blocking Peptide - Protein Information

Name ROR1

Synonyms NTRKR1

ROR1 Antibody Blocking Peptide - 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 Blocking Peptide - 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).

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).

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 Blocking Peptide - Protocols

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

- Blocking Peptides