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ROR1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22435a

Product Information

Application	WB, E
Primary Accession	Q01973
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Clone Names	R03813
Calculated MW	104283

Additional Information

Gene ID	4919
Other Names	Inactive tyrosine-protein kinase transmembrane receptor ROR1, Neurotrophic tyrosine kinase, receptor-related 1, ROR1, NTRKR1
Target/Specificity	This ROR1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human ROR1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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 activates downstream NFkB signaling pathway and may result in the inhibition of

	WNT3A-mediated signaling (PubMed:25029443, PubMed:27162350). In the 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	Cell 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

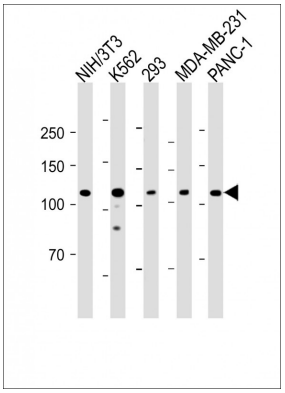
Background

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).

References

Masiakowski P.,et al.J. Biol. Chem. 267:26181-26190(1992).
Reddy U.R.,et al.Oncogene 13:1555-1559(1996).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Bainbridge T.W.,et al.PLoS ONE 9:E102695-E102695(2014).

Images



All lanes: Anti-ROR1 Antibody at 1:2000 dilution Lane 1: NIH/3T3 whole cell lysate Lane 2: K562 whole cell lysate Lane 3: 293 whole cell lysate Lane 4: MDA-MB-231 whole cell lysate Lane 5: PANC-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 120 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.