

Rabbit anti-Human, mouse ROR1 Polyclonal Antibody | anti-ROR1 antibody

ROR1 Antibody

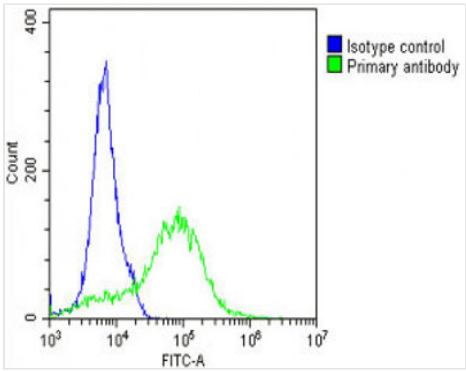
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28644	Rabbit	Human, mouse	Western Blot, Immunohistochemistry, Immunofluorescence, Immunoprecipitation, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

ROR1; Polyclonal Antibody; ROR1 Antibody; Tyrosine-protein kinase transmembrane receptor ROR1; Neurotrophic tyrosine kinase; receptor-related 1; NTRK1; anti-ROR1 antibody

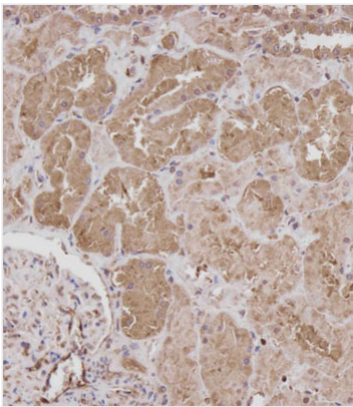
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This ROR1 antibody is generated from rabbits immunized with recombinant human ROR1 protein (aa region: 112 - 399).
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	393
Applicable Applications for anti-ROR1 antibody	WB (Western Blot), Blocking, IHC (Immunohistochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), Cell Culture
Application Notes	WB~~1:4000 IHC-P~~1:100 FC~~1:25
Function	Function Has very low kinase activity in vitro and is unlikely to function as a tyrosine kinase invivo (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.
Preparation and 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.



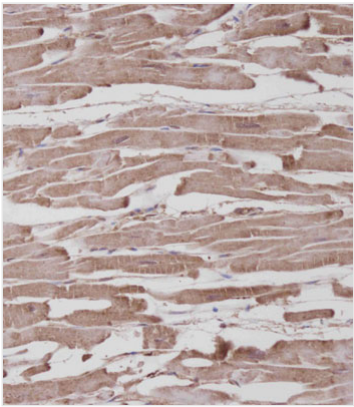
FCM (Flow Cytometry)

Overlay histogram showing A549 cells stained with AAA28644 (green line).The cells were fixedwith 2% paraformaldehyde (10 min).The cells were then icubated in 2% bovine serumalbumin to block non-specific protein-protein interactions followed by the antibody (AAA28644, 1:25 dilution) for 60 min at 37°C.The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37°C.Isotype control antibody (blue line) was rabbit IgG1(1ug/1x10⁶ cells) used under the same conditions.Acquisition of >10, 000 events was performed.



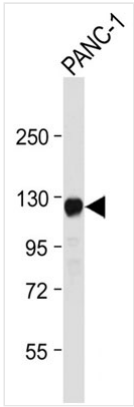
IHC (Immunohistochemistry)

Immunohistochemical analysis of AAA28644 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.



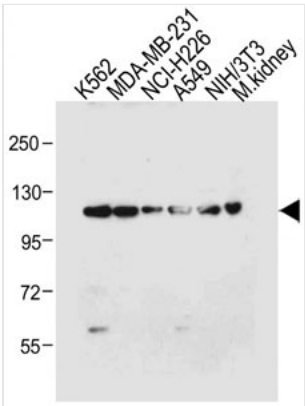
IHC (Immunohistochemistry)

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.



WB (Western Blot)

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



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-ROR1 antibody	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.
Product Categories/Family for anti-ROR1 antibody	Crown Antibodies; Neuroscience; Signal Transduction
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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	134152686
NCBI GeneID	4919
NCBI Accession #	NP_001077061.1; NP_005003.2
NCBI GenBank Nucleotide #	NM_001083592.1
UniProt Accession #	Q01973; Q5VVX6; Q66K77; Q92776
NCBI Official Full Name	tyrosine-protein kinase transmembrane receptor ROR1 isoform 2
NCBI Official Synonym Full Names	receptor tyrosine kinase-like orphan receptor 1
NCBI Official Symbol	ROR1
NCBI Official Synonym Symbols	NTRKR1; dJ537F10.1
NCBI Protein Information	tyrosine-protein kinase transmembrane receptor ROR1
UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR1
UniProt Gene Name	ROR1
UniProt Synonym Gene Names	NTRKR1
UniProt Entry Name	ROR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ror1-antibody-western-blot-immunohistochemistry-immunofluorescence-immunoprecipitation-flow-cytometry-elisa/28644>