For Research Use Only

ROR1 Monoclonal antibody

Catalog Number:66923-1-Ig Featured Product 2 Publications

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Basic Information

Catalog Number:
66923-1-Ig

Size:
150ul , Concentration: 1500 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG14586

GenBank Accession Number:
BC006374

GeneID (NCBI):
4919

Full Name:
receptor tyrosine kinase-like orphan receptor 1

Calculated MW:
937 aa, 104 kDa

Observed MW:
130 kDa

Purification Method:
Protein A purification

CloneNo.:
1F5D8

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:300-1:1200

Applications

Tested Applications:
FC, IHC, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
Human, mouse

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, HeLa cells, NIH/3T3 cells, HepG2 cells, K-562 cells, NCI-H1299 cells, HEK-293 cells

IHC : human breast cancer tissue,

Background Information

ROR1 is a member of the RTK family of orphan receptors related to muscle-specific kinase and Trk neurotrophin receptors (PMID: 18546292). ROR1 is primarily expressed by neural crest cells during embryogenesis. High expression of ROR1 is reported in many types of malignancies and is thought to be involved in tumor growth, apoptosis, and epithelial-mesenchymal transition (PMID: 26245996). The human ROR1 gene encodes a 937 amino acid protein with an Ig-like domain, a cysteine-rich domain, a kringle domain, a tyrosine kinase domain, and a proline-rich domain. The calculated molecular weight of ROR1 is 104 kDa, but ROR1 has multiple N-glycosylation sites that generate post-translationally modified ROR1 at 130 kDa (PMID: 24752542).

Notable Publications

Author	Pubmed ID	Journal	Application
Mengqi Liu	34599596	Acta Biochim Biophys Sin (Shanghai)	WB,IHC
Wei Huang	37343369	Int Immunopharmacol	IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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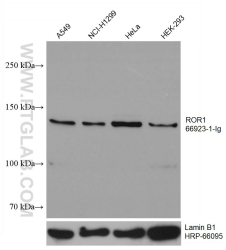
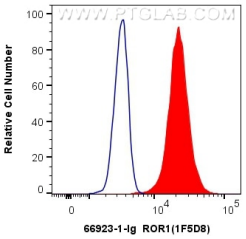
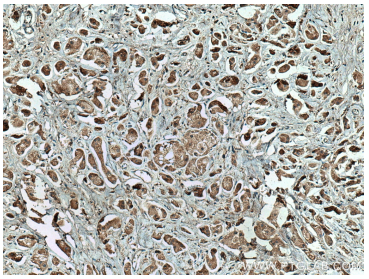
Selected Validation Data



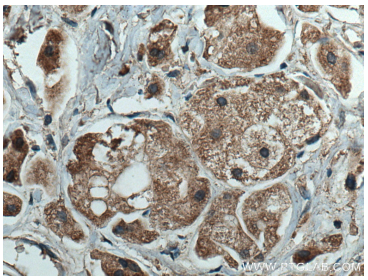
Various lysates were subjected to SDS PAGE followed by western blot with 66923-1-Ig (ROR1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



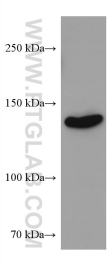
1X10^6 K-562 cells were intracellularly stained with 0.4 ug Anti-Human ROR1 (66923-1-Ig, Clone:1F5D8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66923-1-Ig (ROR1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66923-1-Ig (ROR1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 66923-1-Ig (ROR1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.