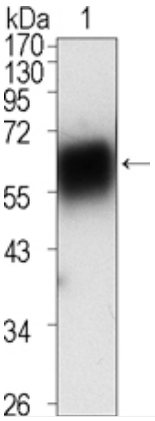
ROR1 Monoclonal Antibody

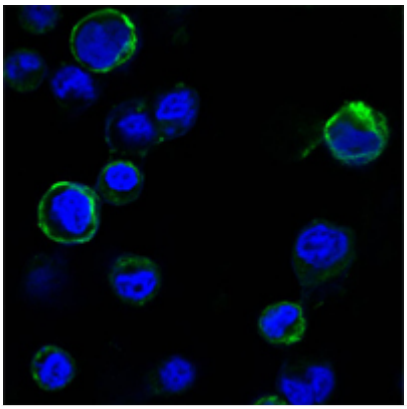
Catalog No	YP-Ab-12941
Isotype	IgG
Reactivity	Human
Applications	WB;IF;ELISA
Gene Name	ROR1
Protein Name	Tyrosine-protein kinase transmembrane receptor ROR1
Immunogen	Recombinant extracellular fragment of human ROR1 (aa30-406) fused with hIgGFc tag, expressed in HEK293 cells
Specificity	ROR1 Monoclonal Antibody detects endogenous levels of ROR1 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ROR1; NTRKR1; Tyrosine-protein kinase transmembrane receptor ROR1; Neurotrophic tyrosine kinase; receptor-related 1
Observed Band	
Cell Pathway	Membrane ; Single-pass type I membrane protein. Cell projection, axon .
Tissue Specificity	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.
Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,developmental stage:Expressed at high levels during early embryonic development. The expression levels drop strongly around day 16 and there are only very low levels in adult tissues.,function:Tyrosine-protein kinase receptor whose role is not yet clear.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. ROR subfamily.,similarity:Contains 1 FZ (frizzled) domain.,similarity:Contains 1 Ig-like C2-type (immunoglobulin-like) domain.,similarity:Contains 1 kringle domain.,similarity:Contains 1 protein kinase domain.,tissue specificity:Expressed strongly in human heart, lung, and kidney, but weakly in the CNS. The short isoform is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm.,

Background	This gene encodes a receptor tyrosine kinase-like orphan receptor that modulates neurite growth in the central nervous system. The encoded protein is a glycosylated type I membrane protein that belongs to the ROR subfamily of cell surface receptors. It is a pseudokinase that lacks catalytic activity and may interact with the non-canonical Wnt signalling pathway. This gene is highly expressed during early embryonic development but expressed at very low levels in adult tissues. Increased expression of this gene is associated with B-cell chronic lymphocytic leukaemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2012],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using ROR1 Monoclonal Antibody against extracellular domain of human ROR1 (aa30-423).



Confocal immunofluorescence analysis of HEK293 cells trasfected with extracellular ROR1 (aa30-406)-hIgGFc using ROR1 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.