

## ROR1 Monoclonal Antibody

<b>Catalog No :</b>	YM0563
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	ROR1
<b>Fields :</b>	>>Wnt signaling pathway
<b>Gene Name :</b>	ROR1
<b>Protein Name :</b>	Tyrosine-protein kinase transmembrane receptor ROR1
<b>Human Gene Id :</b>	4919
<b>Human Swiss Prot No :</b>	Q01973
<b>Mouse Swiss Prot No :</b>	Q9Z139
<b>Immunogen :</b>	Recombinant extracellular fragment of human ROR1 (aa30-406) fused with hlgGfc tag, expressed in HEK293 cells
<b>Specificity :</b>	ROR1 Monoclonal Antibody detects endogenous levels of ROR1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	104kD

**P References :**

1. J Cell Sci. 2005 Jan 15;118(Pt 2):433-46.
2. Oncogene. 1996 Oct 3;13(7):1555-9.

**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],

**Function :**

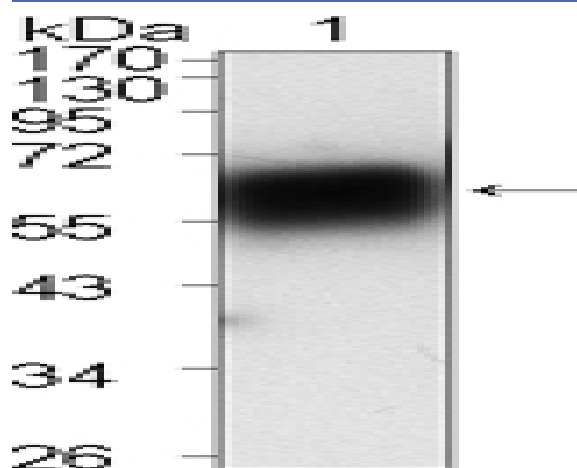
catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,developmental stage:Expressed at high levels during early embryonic development. The expression levels drop strongly around day 16 and there are only very low levels in adult tissues.,function:Tyrosine-protein kinase 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.,

**Subcellular Location :**

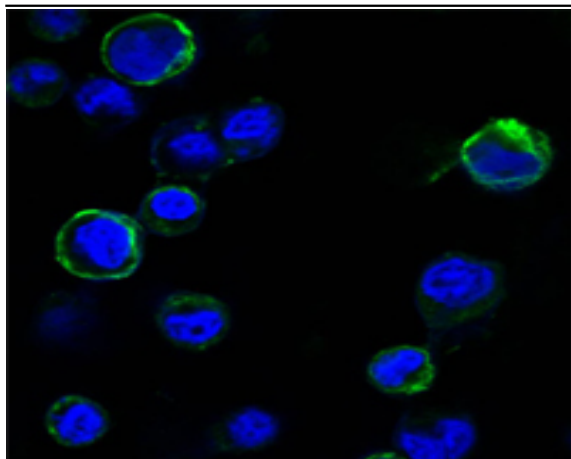
Membrane ; Single-pass type I membrane protein. Cell projection, axon .

**Expression :**

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.

**Products Images**

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



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