4102

ROR1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Transfected Only	MW (kDa): 135	Source/Isotype: Rabbit	UniProt ID: #Q01973	Entrez-Gene Id: 4919
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		ROR1 Antibody detects transfected levels of ROR1 proteins. It does not cross-react with ROR2.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the residues surrounding Pro87 of human ROR1 protein. The antibodies are purified by protein A and peptide affinity chromatography.				
Background		ROR1 and ROR2 are orphan receptor tyrosine kinases that are most closely related to MuSK and the Trk family of neurotrophin receptors. They are characterized by the presence of extracellular frizzled-like cysteine-rich domains and membrane-proximal kringle domains, both of which are assumed to mediate protein-protein interactions (1-3). The ROR family RTKs are evolutionarily conserved among <i>Caenorhabditis elegans</i> , <i>Drosophila</i> , mice, and humans (1,4). Although the functions of ROR kinases are unknown, similarities between ROR and MuSK and Trk kinases have led to speculation that ROR kinases regulate synaptic development. CAM-1, a <i>C. elegans</i> ortholog of the ROR family RTKs, plays several important roles in regulating cellular migration, polarity of asymmetric cell divisions, and axonal outgrowth of neurons during nematode development (4). mROR1 and mROR2 may play differential roles during the development of the nervous system (5).				
Background References		 Al-Shawi, R. et al. (2001) Dev Genes Evol 211, 161-71. Nomi, M. et al. (2001) Mol Cell Biol 21, 8329-35. Roszmusz, E. et al. (2001) J Biol Chem 276, 18485-90. Forrester, W.C. et al. (1999) Nature 400, 881-5. Oishi, I. et al. (1999) Genes Cells 4, 41-56. 				
Species Reacti	ivity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse				
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