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## **ROR1** Antibody



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Applications: WB	Reactivity:	Sensitivity: Transfected	MW (kDa): 135	Source: Rabbit	<b>UniProt ID:</b> #Q01973	Entrez-Gene Id: 4919	
VVD	11101	Only	100	Rabbit	#Q01373	4010	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
Storage	•	plied in 10 mM sodi C. Do not aliquot the	**	), 150 mM NaCl, 10	00 μg/ml BSA and 50% ç	ylycerol. Store at –	
Specificity / Sensitiv	vity ROF	ty ROR1 Antibody detects transfected levels of			of ROR1 proteins. It does not cross-react with ROR2.		
Species predicted to	• Hun	nan					

Species predicted to react based on 100% sequence homology: Human

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the Source / Purification

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

Caenorhabditis elegans, Drosophila, 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 C. elegans 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** 1. Al-Shawi, R. et al. (2001) Dev Genes Evol 211, 161-71.

2. Nomi, M. et al. (2001) Mol Cell Biol 21, 8329-35.

3. Roszmusz, E. et al. (2001) J Biol Chem 276, 18485-90.

4. Forrester, W.C. et al. (1999) Nature 400, 881-5.

5. Oishi, I. et al. (1999) Genes Cells 4, 41-56.

**Species Reactivity** Species reactivity is determined by testing in at least one approved 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** WB: Western Blotting

**Cross-Reactivity Key** H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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