ROR1 Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

**Applications**

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<td>W Transfected</td>
<td>M, (H)</td>
<td>-</td>
<td>135 kDa</td>
<td>Rabbit**</td>
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**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 Caeorohabditis 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).

**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 at the amino-terminal sequence of human ROR1. The antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**


**Applications Key:**

- W—Western
- IP—Immunoprecipitation
- IHC—Immunohistochemistry
- ChIP—Chromatin Immunoprecipitation
- IF—Immunofluorescence
- F—Flow cytometry
- E—ELISA

**Species Cross-Reactivity Key:**

- H—human
- M—mouse
- R—rat
- Hm—hamster
- Mk—monkey
- Mi—mink
- C—chicken
- Dm—D. melanogaster
- X—Xenopus
- E—zebrafish
- B—bovine
- Pg—pig
- Sc—S. cerevisiae
- Ce—C. elegans
- Hr—horse
- All—all species expected

**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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western Blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Western blot analysis of extracts from HEK293 cells, untransfected or transfected with HA-tagged mROR1 using ROR1 Antibody (upper) or HA-tag Antibody #2362 (lower).

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