

## ROR2 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P77828
Synonyms:	BDB; BDB1; NTRKR2; ROR2
Species:	Human
Source:	HEK293
Accession:	A1L4F5 (V34-G403)
Gene ID:	4920
Molecular Weight:	54-65 kDa

### PROPERTIES

<b>Biological Activity</b>	Immobilized Anti-ROR2 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ROR2, hFc Tag with the EC <sub>50</sub> of 6.5ng/ml determined by ELISA.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	ROR2 protein, a tyrosine-protein kinase receptor, emerges as a key player in the early stages of chondrocyte formation and is deemed essential for cartilage and growth plate development. Its phosphorylation of YWHAB not only induces osteogenesis but also promotes bone formation. Despite exhibiting minimal tyrosine kinase activity in vitro, ROR2's intricate role extends to potentially acting as a receptor for the Wnt ligand WNT5A. This interaction may lead to the intriguing outcome of inhibiting WNT3A-mediated signaling. The multifaceted functions of ROR2 highlight its significance in orchestrating complex processes such as chondrogenesis, osteogenesis, and the intricate regulation of Wnt signaling pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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