ROR2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77826
Synonyms:	BDB; BDB1; NTRKR2; ROR2
Species:	Human
Source:	HEK293
Accession:	A1L4F5 (V34-G403)
Gene ID:	4920
Molecular Weight:	80-110 kDa

PROPERTIES

Biological Activity	Immobilized Human ROR2, hFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-ROR2 Antibody, hFc Tag with the EC_{50} of 10.1ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	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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