

ROR2 active protein

Human ROR2, soluble

CATALOG # AAA79320	HOST Insect cells	REACTIVITY Human
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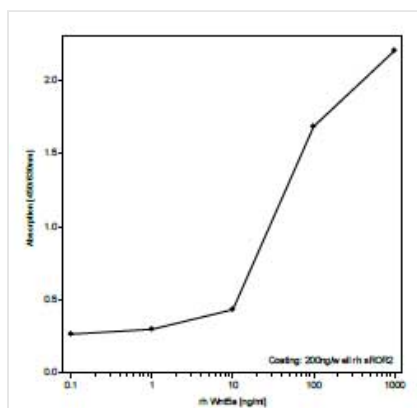
PRODUCT SYNONYMS

ROR2; Human ROR2; soluble; Neurotrophic tyrosine kinase; receptor-related 2; ROR2 active protein

PRODUCT SPECIFICATIONS

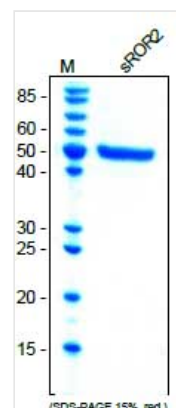
Host	Insect cells
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE & Coomassie stain
Form/Format	Lyophilized
Sequence	ResultbyN- terminalse quencing-E VEVL EV EVLDPNDPLG PLDGQDGIPI TLKGYFLNFL EPVNNITIVQ GQTAILHCKV AGNPPPNVRW LKNDAPVVQE PRRIIRKTE YGSRLRIQDL DTTDTGYYQC VATNGMKTIT ATGVLFVRLG PTHSPNHNQ DDYHEDGFCQ PYRGIACARF IGNRTIYVDS LQMGEIENR ITAAFTMIGT STHLSDQCSQ FAIPSFCHFV FPLCDARSRT PKPRELCRDE CEVLES DLCR QEYTIARSNP LILMRLQLPK CEALPMPESP DAANCMRIGI PAERLGRYHQ CYNGSGMDYR GTASTTKSGH QCQPWALQHP HSHLSSTDF PELGGGHAYC RNPGGQMEGP WCFTQKNVR MELCDVPSCS PRDSSKMGHH HHHH
Sequence Length	432
Reconstitution	The lyophilized sROR2 is soluble in water and most aqueous buffers and should be reconstituted in water to a concentration not lower than 100 ug/ml.
Biological Activity	Binds rh Wnt5a in a functional ELISA.
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20 degree C to -70 degree C. Reconstituted sROR2 should be stored in working aliquots at -70 degree C.

IMAGES



Application Data

Binding of recombinant human Wnt5a to recombinant human sROR2 in a functional ELISA. sROR2 was coated with 2ug/ml (100ug/well) and increasing amounts of Wnt5a was added. Detection was performed using a polyclonal rabbit anti-human Wnt5a and a goat anti-rabbit Biotin conjugated secondary antibody.



SDS-PAGE

SDS-PAGE analysis of recombinant human sROR2 produced in insect cells. Sample was loaded in 15% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for ROR2 active protein	ROR2 is a signaling receptor for Wnt ligands that is known to play important roles in limb development, but having no essential roles known in adult tissues. Recent evidence has implicated ROR2 in mediating both canonical and non-canonical signaling pathways. ROR2 was initially found to be highly expressed in osteosarcoma and renal cell carcinomas, and has recently been found in an increasingly long list of cancers currently including melanoma, colon cancer, melanoma, squamous cell carcinoma of the head and neck, and breast cancer. In the majority of these cancer types, ROR2 expression is associated with more aggressive disease states, consistent with a role mediating Wnt signaling regardless of the canonical or non-canonical signal. Because of the pattern of tissue distribution, the association with high-risk diseases, and the cell surface localization of this receptor, ROR2 has been identified as a potential high value target for therapeutic development. However, the recent discovery that ROR2 may function through non-kinase activities challenges this strategy and opens up opportunities to target this important molecule through alternative means.
Product Categories/Family for ROR2 active protein	Recombinant Protein; Soluble Receptors; ROR2; soluble

NCBI AND UNIPROT INFORMATION

NCBI GI #	970598266
NCBI GeneID	4920
NCBI Accession #	NP_001305133.1
NCBI GenBank Nucleotide #	NM_001318204.1
UniProt Accession #	Q01974; Q59GF5; Q5SPI5; Q9HAY7; Q9HB61
Molecular Weight	104,757 Da
NCBI Official Full Name	tyrosine-protein kinase transmembrane receptor ROR2 isoform 2
NCBI Official Synonym Full Names	receptor tyrosine kinase like orphan receptor 2
NCBI Official Symbol	ROR2
NCBI Official Synonym Symbols	BDB; BDB1; NTRKR2
NCBI Protein Information	tyrosine-protein kinase transmembrane receptor ROR2
UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR2
UniProt Gene Name	ROR2
UniProt Synonym Gene Names	NTRKR2
UniProt Entry Name	ROR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.