ROR1 Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	ROR1, Cell Lysate
Full Product Name	Human ROR1 Baculovirus-Insect cells Overexpression Lysate
Product Gene Name	ROR1 cell lysate
Product Synonym Names	Human ROR1 (aa 453-783) Insect Cell Lysate (WB positive control); receptor tyrosine kinase-like orphan receptor 1; Human dJ537F10.1 Overexpression Lysate; Human NTRKR1 Overexpression Lysate
Sequence	Met453-Asn 783
Host	Baculovirus-Insect cells
Form/Format	1x Sample Buffer (1x modified RIPA buffer+1x SDS loading buffer). Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.
Preparation and Storage	Store at 4 degree C for up to twelve months from date of receipt. After re-dissolution, aliquot and store at -80 degree C for up to twelve months. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt.
Molecular Weight	43,826 Da
Sequence Positions	568aa
Species	Human
Recommend Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.**2. Re-dissolve the pellet using 200uL pure water and boil for 2-5 min.**
Sequence Construction	A DNA sequence encoding the human ROR1 (AAA60275.1) (Met453-Asn783) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Preparation Method	Cell lysate was prepared by homogenization of the over-expressed cells in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading buffer (50mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Applications Tested/Suitable for ROR1 cell lysate	Western Blot (WB)
Application Notes for ROR1 cell lysate	WB: Use at an assay dependent dilution.
Related Product Information for ROR1 cell lysate	This Human ROR1 overexpression lysate was created in Baculovirus-Insect cells and intented for use as a Western blot (WB) positive control. Purification of ROR1 protein from the overexpression lysate was verified.
Other Notes	Small volumes of ROR1 cell lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ROR1 purchase	MBS8115324 is a cell lysate targeting ROR1. Also known as Human ROR1 Baculovirus-Insect cells Overexpression Lysate. Host: Baculovirus-Insect cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ROR1. It may not necessarily be applicable to this product.

NCBI GI #	337465

NCBI GeneID	4919
NCBI Accession #	AAA60275.1
UniProt Secondary Accession #	Q5VVX6; Q66K77; Q92776
UniProt Related Accession #	Q01973
NCBI Official Full Name	transmembrane receptor
NCBI Official Synonym Full Names	receptor tyrosine kinase like orphan receptor 1
NCBI Official Symbol	ROR1
NCBI Official Synonym Symbols	NTRKR1; dJ537F10.1
Protein Family	Inactive tyrosine-protein kinase transmembrane receptor
NCBI Protein Information	inactive tyrosine-protein kinase transmembrane receptor ROR1
NCBI Summary for ROR1	This gene encodes a receptor tyrosine kinase-like orphan receptor that modulates neurite growth in the central nervous system. The encoded protein is a glycosylated type I membrane protein that belongs to the ROR subfamily of cell surface receptors. It is a pseudokinase that lacks catalytic activity and may interact with the non-canonical Wnt signalling pathway. This gene is highly expressed during early embryonic development but expressed at very low levels in adult tissues. Increased expression of this gene is associated with B-cell chronic lymphocytic leukaemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2012]
Research Articles on ROR1	**1.** Ror1 is crucial for spiral ganglion neurons to innervate auditory hair cells. Impairment of ROR1 function largely affects development of the inner ear and hearing in humans and mice.
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