Active Recombinant Full Length Human ROR1 Protein, C-Flag-tagged

Cat. No. ROR1-140HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ROR1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	ELISA capture for autoantibodies WB positive control Affinity purification chromatography
Molecular Mass	104.1 kDa

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MHRPRRRGTRPPLLALLAALLLAARGAAAQETELSVSAELVPTSSWNISSELNKDSY LTLDEPMNNITTS LGQTAELHCKVSGNPPPTIRWFKNDAPVVQEPRRLSFRSTIYGS RLRIRNLDTTDTGYFQCVATNGKEVV SSTGVLFVKFGPPPTASPGYSDEYEEDGFC QPYRGIACARFIGNRTVYMESLHMQGEIENQITAAFTMIG TSSHLSDKCSQFAIPSLC HYAFPYCDETSSVPKPRDLCRDECEILENVLCQTEYIFARSNPMILMRLKLP NCEDL PQPESPEAANCIRIGIPMADPINKNHKCYNSTGVDYRGTVSVTKSGRQCQPWNSQY PHTHTFTAL RFPELNGGHSYCRNPGNQKEAPWCFTLDENFKSDLCDIPACDSKDS KEKNKMEILYILVPSVAIPLAIAL LFFFICVCRNNQKSSSAPVQRQPKHVRGQNVEMS MLNAYKPKSKAKELPLSAVRFMEELGECAFGKIYKG HLYLPGMDHAQLVAIKTLKDY NNPQQWMEFQQEASLMAELHHPNIVCLLGAVTQEQPVCMLFEYINQGDL HEFLIMR SPHSDVGCSSDEDGTVKSSLDHGDFLHIAIQIAAGMEYLSSHFFVHKDLAARNILIGE QLHVK ISDLGLSREIYSADYYRVQSKSLLPIRWMPPEAIMYGKFSSDSDIWSFGVVL WEIFSFGLQPYYGFSNQE VIEMVRKRQLLPCSEDCPPRMYSLMTECWNEIPSRRP RFKDIHVRLRSWEGLSSHTSSTTPSGGNATTQT TSLSASPVSNLSNPRYPNYMFPS QGITPQGQIAGFIGPPIPQNQRFIPINGYPIPPGYAAFPAAHYQPTG PPRVIQHCPPP KSRSPSSASGSTSTGHVTSLPSSGSNQEANIPLLPHMSIPNHPGGMGITVFGNKSQK PY KIDSKQASLLGDANIHGHTESMISAELTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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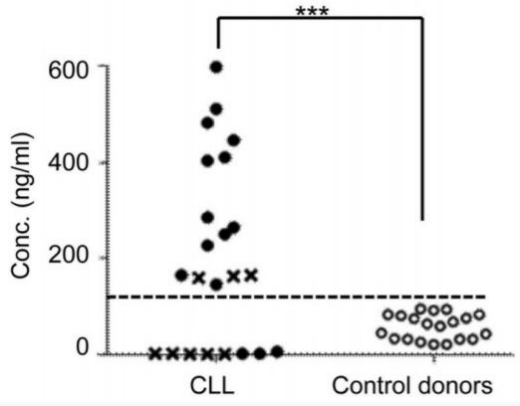
Protein Families	Druggable Genome, Protein Kinase, Transmembrane
Full Length	Full L.

GENE INFORMATION

Gene Name	ROR1 receptor tyrosine kinase like orphan receptor 1 [Homo sapiens (human)]
Official Symbol	ROR1
Synonyms	NTRKR1; dJ537F10.1
Gene ID	4919
mRNA Refseq	NM_005012.4
Protein Refseq	NP_005003.2
MIM	602336
UniProt ID	Q01973



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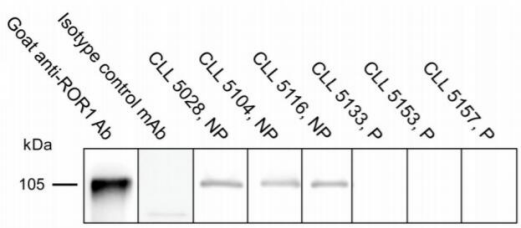
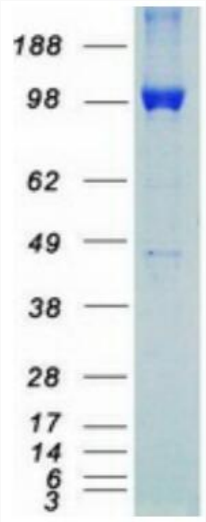
Serum concentrations (ng/ml) of anti-ROR1 autoantibodies in chronic lymphocytic leukemia (CLL) patients and controls, as measured by ELISA against the full-length ROR1 protein.



Anti-ROR1 autoantibodies from three nonprogressive (NP) and three progressive (P) chronic lymphocytic leukemia patients were analyzed in Western blot using the recombinant full-length ROR1 protein. A goat antiROR1 antibody and an isotype control MAb served as positive and negative controls, respectively.



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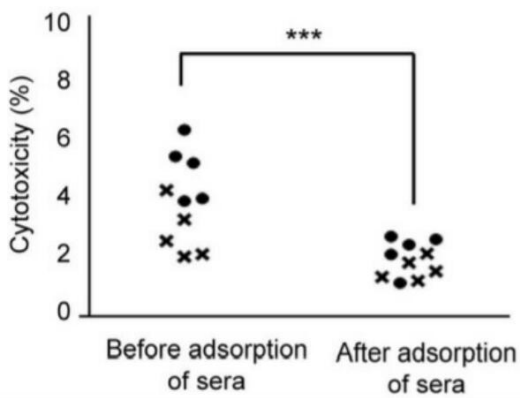
Cytotoxicity (%) of leukemic cells induced by the serum IgG fractions from five non-progressive (circles) and five progressive (crosses) chronic lymphocytic leukemia patients before and after the adsorption of sera with the recombinant fulllength ROR1 protein.



Coomassie blue staining of purified ROR1 protein.

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