OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TP314967M

ROR1 (NM_005012) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human receptor tyrosine kinase-like orphan receptor 1 (ROR1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC214967 representing NM_005012 Red=Cloning site Green=Tags(s) MHRPRRRGTRPPLLALLAALLLAARGAAAQETELSVSAELVPTSSWNISSELNKDSYLTLDEPMNNITTS LGQTAELHCKVSGNPPPTIRWFKNDAPVVQEPRRLSFRSTIYGSRLRIRNLDTTDTGYFQCVATNGKEVV SSTGVLFVKFGPPPTASPGYSDEYEEDGFCQPYRGIACARFIGNRTVYMESLHMQGEIENQITAAFTMIG TSSHLSDKCSQFAIPSLCHYAFPYCDETSSVPKPRDLCRDECEILENVLCQTEYIFARSNPMILMRLKLP NCEDLPQPESPEAANCIRIGIPMADPINKNHKCYNSTGVDYRGTVSVTKSGRQCQPWNSQYPHTHTFTAL RFPELNGGHSYCRNPGNQKEAPWCFTLDENFKSDLCDIPACDSKDSKEKNKMEILYILVPSVAIPLAIAL LFFFICVCRNNQKSSSAPVQRQPKHVRGQNVEMSMLNAYKPKSKAKELPLSAVRFMEELGECAFGKIYKG HLYLPGMDHAQLVAIKTLKDYNNPQQWMEFQQEASLMAELHHPNIVCLLGAVTQEQPVCMLFEYINQGDL HEFLIMRSPHSDVGCSSDEDGTVKSSLDHGDFLHIAIQIAAGMEYLSSHFFVHKDLAARNILIGEQLHVK ISDLGLSREIYSADYYRVQSKSLLPIRWMPPEAIMYGKFSSDSDIWSFGVVLWEIFSFGLQPYYGFSNQE VIEMVRKRQLLPCSEDCPPRMYSLMTECWNEIPSRRPRFKDIHVRLRSWEGLSSHTSSTTPSGGNATTQT TSLSASPVSNLSNPRYPNYMFPSQGITPQGQIAGFIGPPIPQNQRFIPINGYPIPPGYAAFPAAHYQPTG PPRVIQHCPPPKSRSPSSASGSTSTGHVTSLPSSGSNQEANIPLLPHMSIPNHPGGMGITVFGNKSQKPY KIDSKQASLLGDANIHGHTESMISAEL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	104.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

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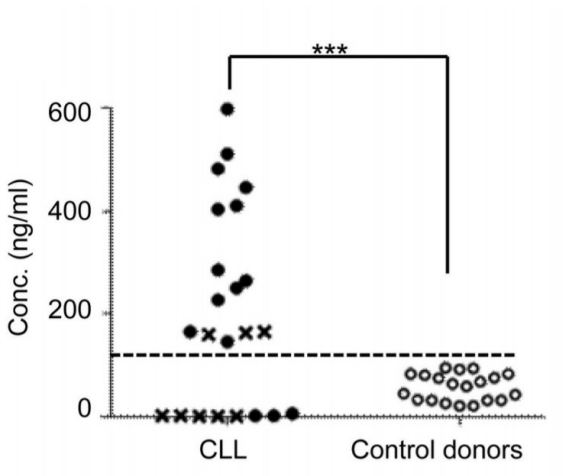
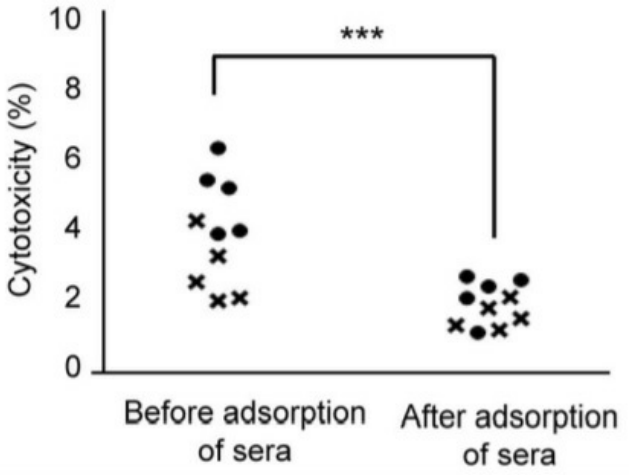
Bioactivity:	ELISA capture for autoantibodies (PMID: 26562161) WB positive control (PMID: 26562161) Affinity purification chromatography (PMID: 26562161)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005003
Locus ID:	4919
UniProt ID:	Q01973
RefSeq Size:	3358
Cytogenetics:	1p31.3
RefSeq ORF:	2811
Synonyms:	dJ537F10.1; NTRKR1
Summary:	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]
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane

Product images:

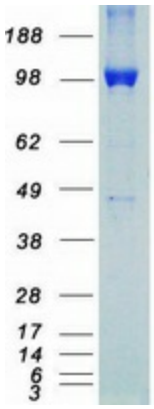


Serum concentrations (ng/ml) of anti-ROR1 autoantibodies in chronic lymphocytic leukemia (CLL) patients and controls, as measured by ELISA against the full-length ROR1 protein (OriGene [TP314967]). Solid circles: non-progressive CLL; crosses: progressive CLL; blank circles: control donors. Dotted line represents mean+2SD of controls. *** $p < 0.0001$. Figure cited from PLoS ONE, PMID: 26562161

Anti-ROR1 autoantibodies from three non-progressive (NP) and three progressive (P) chronic lymphocytic leukemia patients were analyzed in Western blot using the recombinant full-length ROR1 protein (OriGene [TP314967]). A goat anti-ROR1 antibody and an isotype control MAb served as positive and negative controls, respectively. Figure cited from PLoS ONE, PMID: 26562161



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 full-length ROR1 protein (OriGene [TP314967]). *** p < 0.0001. Figure cited from PLoS ONE, PMID: 26562161



Coomassie blue staining of purified ROR1 protein (Cat# [TP314967]). The protein was produced from HEK293T cells transfected with ROR1 cDNA clone (Cat# [RC214967]) using MegaTran 2.0 (Cat# [TT210002]).