

Recombinant Human ROR1 Protein, His-tagged, Alexa Fluor 488 conjugated

Cat. No. ROR1-198HAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Alexa Fluor 488 conjugated recombinant human ROR1 /NTRKR1 Protein (rh ROR1) Gln 30 - Glu 403 (Accession # Q01973) was produced in human 293 cells (HEK293).

Species

Human

Source

HEK293

ProteinLength

30-403 a.a.

Description

Tyrosine-protein kinase transmembrane receptor ROR1 is also known as Neurotrophic tyrosine kinase, receptor-related 1 (NTRKR1), which belongs to the protein kinase superfamily or tyr protein kinase family or ROR subfamily. ROR1 contains 1 FZ (frizzled) domain, 1 Ig-like C2-type (immunoglobulin-like) domain, 1 kringle domain, 1 protein kinase domain. ROR1 is expressed at high levels during early embryonic development. The expression levels drop strongly around day 16 and there are only very low levels in adult tissues. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm. ROR1 could interact with casein kinase 1 epsilon (CK1ε) to activate phosphoinositide 3-kinase-mediated AKT phosphorylation and cAMP-response-element-binding protein (CREB), which was associated with enhanced tumor-cell growth.

Form

Lyophilized

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Molecular Mass	rh ROR1 is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 43.5 kDa. DTT-reduced Protein migrates as 55-66 kDa in SDS-PAGE due to glycosylation.
N-terminal Sequence Analysis	Gln 30
Endotoxin	< 1.0 EU/ µg of the rh ROR1 by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4 centigrade); After reconstitution under sterile conditions for 3 months (-70 centigrade).
Storage Buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Conjugation	Alexa Fluor 488

GENE INFORMATION

Gene Name	ROR1 receptor tyrosine kinase-like orphan receptor 1 [Homo sapiens]
Official Symbol	ROR1

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Synonyms	ROR1; receptor tyrosine kinase-like orphan receptor 1; NTRKR1; tyrosine-protein kinase transmembrane receptor ROR1; neurotrophic tyrosine kinase receptor-related 1; neurotrophic tyrosine kinase, receptor-related 1; dJ537F10.1; MGC99659;
Gene ID	4919
mRNA Refseq	NM_001083592
Protein Refseq	NP_001077061
MIM	602336
UniProt ID	Q01973

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