

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Alexa Fluor 488 conjugated recombinant human ROR1 /NTRKR1 Protein (rh ROR1) Gln 30 - Glu 403 (Accession # Q01973) was produced in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 30-403 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>               | 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.                                   |
| <b>N-terminal Sequence Analysis</b> | Gln 30                                                                                                                                                                                                          |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg of the rh ROR1 by the LAL method.                                                                                                                                                                  |
| <b>Purity</b>                       | > 95 % as determined by SDS-PAGE                                                                                                                                                                                |
| <b>Characteristic</b>               | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                       |
| <b>Storage</b>                      | 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). |
| <b>Storage Buffer</b>               | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.                                                                        |
| <b>Conjugation</b>                  | Alexa Fluor 488                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| <b>Gene Name</b>       | ROR1 receptor tyrosine kinase-like orphan receptor 1 [ Homo sapiens ] |
| <b>Official Symbol</b> | ROR1                                                                  |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | 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; |
| <b>Gene ID</b>        | <a href="#">4919</a>                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>    | <a href="#">NM_001083592</a>                                                                                                                                                                                                                 |
| <b>Protein Refseq</b> | <a href="#">NP_001077061</a>                                                                                                                                                                                                                 |
| <b>MIM</b>            | <a href="#">602336</a>                                                                                                                                                                                                                       |
| <b>UniProt ID</b>     | <a href="#">Q01973</a>                                                                                                                                                                                                                       |

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