# Recombinant Human ROR2 Protein, hFc-tagged, Alexa Fluor 488 conjugated

**Cat. No.** ROR2-183HAF488 **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Alexa Fluor 488 conjugated recombinant human ROR2 (Glu34-Gly403) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293). |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | Glu34-Gly403 |
| **Description** | Tyrosine-protein kinase transmembrane receptor ROR2 is also known as Neurotrophic tyrosine kinase, receptor-related 2 (NTRKR2), which belongs to the protein kinase superfamily and Tyr protein kinase family and ROR subfamily. ROR2 is a homodimer protein, which can binds YWHAB or interact with WTIP. ROR2 may be involved in the early formation of the chondrocytes. It seems to be required for cartilage and growth plate development. |
| **Form** | Lyophilized |
| **Molecular Mass** | The protein has a calculated MW of 68 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| **N-terminal Sequence Analysis** | Glu 34 |

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| **Endotoxin** | < 1.0 EU/ μg by the LAL method. |
| **Purity** | > 95 % as determined by SDS-PAGE |
| **Characteristic** | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 488 via amines<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Storage** | For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.<br>Please avoid repeated freeze-thaw cycles.<br>This product is stable after storage at:<br>-20 to -70 centigrade for 12 months in lyophilized state;<br>-70 centigrade for 3 months under sterile conditions after reconstitution. |
| **Storage Buffer** | Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| **Conjugation** | Alexa Fluor 488 |

## GENE INFORMATION

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| **Gene Name** | ROR2 |
| **Official Symbol** | ROR2 |

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| **Synonyms** | ROR2; receptor tyrosine kinase-like orphan receptor 2; BDB, BDB1, NTRKR2; tyrosine-protein kinase transmembrane receptor ROR2; neurotrophic tyrosine kinase receptor-related 2; BDB; BDB1; NTRKR2; MGC163394 |
| **Gene ID** | 4920 |
| **mRNA Refseq** | NM_004560 |
| **Protein Refseq** | NP_004551 |
| **MIM** | 602337 |
| **UniProt ID** | Q01974 |

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