

# Recombinant Full Length Human ROR2 Protein, Fc-tagged

Cat. No. ROR2-434H Lot. No. (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant human ROR2 protein with Fc tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 943                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>The protein encoded by this gene is a receptor protein tyrosine kinase and type I transmembrane protein that belongs to the ROR subfamily of cell surface receptors. The protein may be involved in the early formation of the chondrocytes and may be required for cartilage and growth plate development. Mutations in this gene can cause brachydactyly type B, a skeletal disorder characterized by hypoplasia/aplasia of distal phalanges and nails. In addition, mutations in this gene can cause the autosomal recessive form of Robinow syndrome, which is characterized by skeletal dysplasia with generalized limb bone shortening, segmental defects of the spine, brachydactyly, and a dysmorphic facial appearance.</p> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 68 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | <p>MARGSALPRRPLLCIPAVWAAAALLLSVSRTSGEVEVLDPNDPLGPLDGQDGIPTL<br/>           KGYFLNFLEPVNNITIVQGQTAILHCKVAGNPPPNVRWLKNDAPVVQEPRRIIRKTEY<br/>           GSRLRIQDLDTTDTGYQQCVATNGMKTITATGVLFVRLGPTHSPNHNFQDDYHEDG</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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FCQPYRGIACARFIGNRTIYVDSLQMQGEIENRITAAFTMIGTSTHLSDQCSQFAIPSF  
 CHFVFPLCDARSRAPKPRELCRDECEVLES DLCRQEYTIARSNPLILMRLQLPKCEA  
 LPMPEPDAANCMRIGIPAERLGRYHQCYNGSGMDYRGTASTTKSGHQCPWALQ  
 HPHSHHLSSTDFPELGGGHAYCRNPGGQMEGPWCFTQKNKVRMELCDVPSCSPR  
 DSSKMGILYILVPSIAIPLVIACLFFLVCMCRNKQKASASTPQRRQLMASPSQDMEMP  
 LINQHKQAKLKEISLSAVRFMEELGEDRFGKVYKGH LFGPAPGEQTQAVAIKTLKDK  
 AEGPLREEFRHEAMLRARLQHPNVVCLLGVVTKDQPLSMIFS YCSHGDLHEFLVMR  
 SPHSDVGSTDDDR TVKSALEPPDFVHLVAQIAAGMEYLSSHVVHKDLATRNVLVY  
 DKLNVKISDLGLFRE VYAADYYKLLGN SLLPIRWMAP EAIMYGKFSIDSDIWSYGVVL  
 WEVFSYGLQP YCGYSNQDVVEMIRNRQVLPCPDDCPAWVYALMIECWNEFP SRRP  
 RFKDIHSRLRAWGNLSNYNSSAQTSGASNTTQTSSLSTSPVSNVSNARYVGP KQKA  
 PFPQPQFIPMKGQIRPMVPPPQLYIPVNGYQVPV PAYGAYLPNFYPVQIPMQMAPQ  
 QVPPQMVPKPSSHHS GSGSTSTGYVTTAPSNTSMADRAALLSEGADDTQNAPEDG  
 AQSTVQEAEEEEEGSVPETELLGDCDTLQVDEAQVQLEA

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted

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stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ROR2 receptor tyrosine kinase-like orphan receptor 2 [ Homo sapiens (human) ]                                                                                                                                 |
| <b>Official Symbol</b> | ROR2                                                                                                                                                                                                          |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 4920                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_004560                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_004551                                                                                                                                                                                                     |
| <b>MIM</b>             | 602337                                                                                                                                                                                                        |
| <b>UniProt ID</b>      | Q01974                                                                                                                                                                                                        |

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