

## Recombinant Human RHOD, His-tagged

Cat. No. RHOD-30391TH    Lot. No. (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment of Human RHOD with an N terminal His tag; 211 amino acids with the tag, predicted mwt: 23.8 kDa.                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>      | 190 amino acids                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>        | Ras homolog, or Rho, proteins interact with protein kinases and may serve as targets for activated GTPase. They play a critical role in muscle differentiation. The protein encoded by this gene binds GTP and is a member of the small GTPase superfamily. It is involved in endosome dynamics and reorganization of the actin cytoskeleton, and it may coordinate membrane transport with the function of the cytoskeleton. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Weight</b>   | 23.800kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue specificity</b> | Heart, placenta, liver, skeletal muscle, and pancreas and, with weaker intensity, in several other tissues.                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>             | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                                 |                                                                                                                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 50% Glycerol, 5mM DTT, 200mM Sodium chloride, 20mM Tris HCl, 2mM EDTA, 0.1mM PMSF, pH 8.0                                                                                                                         |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                               |
| <b>Sequences of amino acids</b> | MMGSSHHHHHH SSGLVPRGSH MVKVVLVGDG GCGKTSLLMV FADGAFPESY<br>TPTVFERVMV NLQVKGKPVH LHIWDTAGQD DYDRLRPLFY PDASVLLLCF<br>DVTSPNSFDN IFNRWYPEVN HFCKKVPIIV VGCKTDLRKD KSLVNKLRRN<br>GLEPVTYHRG QEMARSVGAV AYLECSARLH DNVHAVFQEA AEVALSSRGR<br>NFWRRITQGF C |
| <b>Sequence Similarities</b>    | Belongs to the small GTPase superfamily. Rho family.                                                                                                                                                                                                  |

## GENE INFORMATION

|                        |                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RHOD ras homolog gene family, member D [ Homo sapiens ]                                                                                                                |
| <b>Official Symbol</b> | RHOD                                                                                                                                                                   |
| <b>Synonyms</b>        | RHOD; ras homolog gene family, member D; ARHD; rho-related GTP-binding protein RhoD; Rho; Rho related GTP binding protein RhoD; Rho related protein HP1; RhoD; RhoHP1; |
| <b>Gene ID</b>         | 29984                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_014578                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_055393                                                                                                                                                              |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 605781                                                                                                                                                                                                                                  |
| <b>Uniprot ID</b>          | O00212                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 11q14.3                                                                                                                                                                                                                                 |
| <b>Pathway</b>             | Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Rho GTPase cycle, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by Rho GTPases, organism-specific biosystem; |
| <b>Function</b>            | GTP binding; GTPase activity; nucleotide binding;                                                                                                                                                                                       |

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