

# Active Recombinant Human ROBO1 Protein, Fc-tagged

**Cat. No.** ROBO1-001H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ROBO1/DUTT1 (Ser20-Pro858) protein with Human IgG1 (Pro100-Lys330) at C-terminus was expressed in Mouse myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 20-858 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Bilateral symmetric nervous systems have special midline structures that establish a partition between the two mirror image halves. Some axons project toward and across the midline in response to long-range chemoattractants emanating from the midline. The product of this gene is a member of the immunoglobulin gene superfamily and encodes an integral membrane protein that functions in axon guidance and neuronal precursor cell migration. This receptor is activated by SLIT-family proteins, resulting in a repulsive effect on glioma cell guidance in the developing brain. A related gene is located at an adjacent region on chromosome 3. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. When recombinant human Slit3 is coated at 250 ng/mL, Recombinant Human ROBO1 Fc Chimera binds with a typical ED50 of 100-600 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 119 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>N-terminal Sequence Analysis</b> | Ser20                                                                                                                                                                                                                                                                                                    |
| <b>Endotoxin</b>                    | <0.10 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                      |
| <b>Purity</b>                       | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.                                                                                                                                                                                             |
| <b>Storage</b>                      | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 centigrade as supplied.<br>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.<br>3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| <b>Storage Buffer</b>               | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b>               | Reconstitute at 100 µg/mL in PBS.                                                                                                                                                                                                                                                                        |
| <b>Shipping</b>                     | The product is shipped at ambient temperature.                                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ROBO1 roundabout guidance receptor 1 [ Homo sapiens (human) ]                                                                                       |
| <b>Official Symbol</b> | ROBO1                                                                                                                                               |
| <b>Synonyms</b>        | ROBO1; roundabout guidance receptor 1; SAX3; DUTT1; roundabout homolog 1; deleted in U twenty twenty; roundabout, axon guidance receptor, homolog 1 |
| <b>Gene ID</b>         | 6091                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_133631                                                                                                                                           |

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|----------------|-----------|
| Protein Refseq | NP_598334 |
| MIM            | 602430    |
| UniProt ID     | Q9Y6N7    |

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