

Active Recombinant Human ROBO1 Protein, Fc-tagged

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

SPECIFICATION

Product Overview	Recombinant Human ROBO1/DUTT1 (Ser20-Pro858) protein with Human IgG1 (Pro100-Lys330) at C-terminus was expressed in Mouse myeloma cell line.
Species	Human
Source	Mammalian Cells
ProteinLength	20-858 a.a.
Description	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.
Bio-activity	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.
Molecular Mass	119 kDa

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

GENE INFORMATION

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

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Protein Refseq NP_598334

MIM 602430

UniProt ID Q9Y6N7

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