

Recombinant Human ROBO1

Cat. No. ROBO1-30953TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 491-589 of Human Robo1, with an N-terminal proprietary tag, predicted MWt 36.52 kDa
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
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.
Molecular Weight	36.520kDa inclusive of tags
Tissue specificity	Widely expressed, with exception of kidney.
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DGVLVSTQDSRIKQLENGVLQIRYAKLGDTEGRYTCTASTPSGEATWSAYIEVQEFGV PVQPPRPTDPNLIPSAPSKPEVTDVSRNTVTLSWQPNLNSGA
Sequence Similarities	Belongs to the immunoglobulin superfamily. ROBO family.Contains 3 fibronectin type-III domains.Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

GENE INFORMATION

Gene Name	ROBO1 roundabout, axon guidance receptor, homolog 1 (Drosophila) [Homo sapiens]
Official Symbol	ROBO1
Synonyms	ROBO1; roundabout, axon guidance receptor, homolog 1 (Drosophila); roundabout (axon guidance receptor, Drosophila) homolog 1; roundabout homolog 1; DUTT1; FLJ21882; SAX3;
Gene ID	6091
mRNA Refseq	NM_001145845
Protein Refseq	NP_001139317
MIM	602430

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Uniprot ID	Q9Y6N7
Chromosome Location	3p12.3
Pathway	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
Function	LRR domain binding; axon guidance receptor activity; identical protein binding; protein binding; receptor activity;

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