

Recombinant Human ROBO1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ROBO1-4672H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ROBO1 MS Standard C13 and N15-labeled recombinant protein (NP_001139316) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	175.7 kDa
AA Sequence	MIAEPAHFYLFGLICLCSGSRLRQEDFPPRIVEHPSDLIVSKGEPATLNCKAEGRPTPTIEWYKGGERVETDKDDPRSHRMLLPSSGLFFLRIVHGRKSRPDEGVYVCVARNYLGEAVSHNASLEVAILRDDFRQNPSDVMVAVGEPVMECQPPRGHPEPTISWKKDGSPLDDKDERITIRGGKLMITYTRKSDAGKYVCVGTNMVGERESEVAELTVLERPSFV

 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

KRPSNLAVTVDDSAEFKCEARGDPVPTVRWRKDDGELPKSRYEIRDDHTLKIRKVT
 AGDMGSYTCVAENMVGKAEASATLTVQVGSEPPHFVVKPRDQVVALGRTVTFQCE
 ATGNPQPAIFWRREGSQNLLFSYQPPQSSSRFSVSQTGDLTITNVQRSVDVGYICQ
 TLNVAGSIITKAYLEVTDVIADRPPPVRQGPVNQTVAVDGTFLVSCVATGSPVPTILW
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 GVPVQPPRPTDNLIPSAPSKPEVTDVSRNTVTLVSWQPNLNSGATPTSIIIEAFSHAS
 GSSWQTVAEENVKTETSAIKGLKPNAILFLVRAANAYGISDPSQISDPVKTQDVLPTS
 QGVDHKQVQRELGNVHLHNPVTLSSSSIEVHWTVDQSQSYIQGYKILYRPSGAN
 HGESDWLVFEVTRPAKNSVIPDLRKGVNIEIKARPPFFNEFQGADSEIKFAKTLEEA
 PSAPPQGVTVSKNDGNGTAILVSWQPPPEDTQNGMVQEYKVVCLGNETRYHINKT
 VDGSTFSVIPFLVPGIRYSVEVAASTGAGSGVKSEPQFIQLDAHGNPVSPEDQVSL
 AQQISDVVKQPAFIAGIGAACWILMVFSIWLYRHRKKRNGLTSTYAGIRKVTYQRRG
 EAVSSGGRPGLLNISEPAAQPWLADTWPNTGNNHNDCSISCCTAGNGNSDSNLTT
 YSRPADCIANYNNQLDNKQTNLMLPESTVYGDVLSNKINEMKTFNSPNLKDGRFV
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 LEEEEEDERGPTPPVRGAASSPAAVSYSHQSTATLTPSPQEELQPMLQDCPEETGH
 MQHQPDRRRQPVSPPPPPRISPPHTYGYISGPLVSDMDTDAPEEEEEDEADMEVA
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 SFFTDADFAQAVAAAAEYAGLKVARRQMQDAAGRHRFHASQCPRPTSPVSTDSNM
 SAAVMQKTRPAKKLKHQPGHLRRETYTDDLPPPPVPPPAIKSPTAQSKTQLEVRPV
 VVPKLPSMDARTDRSSDRKGSSYKGREVLDRQVVDMMRTNPGDPREAEQQNDG
 KGRGNKAAKRDLPKAKTHLIQEDILPYCRPTFPTSNNPRDPSSSSSMSSRSGSGSRQ
 REQANVGRRNAEMQVLGGYERGEDNNEELEETESTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling

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conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ROBO1 roundabout guidance receptor 1 \[Homo sapiens \(human\) \]](#)

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; deleted in U twenty twenty; MGC131599; MGC133277;

Gene ID [6091](#)

mRNA Refseq [NM_001145844](#)

Protein Refseq [NP_001139316](#)

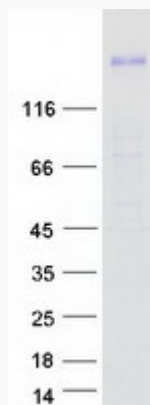
MIM [602430](#)

UniProt ID [Q9Y6N7](#)

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SDS-PAGE

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