

Recombinant Human roundabout guidance receptor 1 Protein, His tagged

Cat. No. ROBO1-002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ROBO1 Protein (20-861 aa, Val310-Ser312 del) with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	20-861 aa, Val310-Ser312 del
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.
Tag	His
Molecular Mass	93 kDa
AA Sequence	SRLRQEDFPPIRIVEHPSDLIVSKGEPATLNCKAEGRPPTIEWYKGGERVETDKDDP

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RSHRMLLPSSGLFFLRIVHGRKSRPDEGVYVCVARNYLGEAVSHNASLEVAILRDDF
 RQNPSDVMVAVGEPAVMECQPPRGHPEPTISWKKDGSPLDDKDERITIRGGKLMIT
 YTRKSDAGKYVCVGTNMVGERESEVAELTVLERPSFVKRPSNLAVTVDDSAEFKCE
 ARGDPVPTVRWRKDDGELPKSRYEIRDDHTLKIRKVTAGDMGSYTCVAENMVGKA
 EASATLTVQEPHFVVKPRDQVVALGRTVTFQCEATGNPQPAIFWRREGSQNLLFS
 YQPPQSSSRFSVSQTGDLTITNVQRSVDVGYICQTLNVAGSIITKAYLEVTDVIADRP
 PPVIRQGPVNQTVAVDGTFLSCVATGSPVPTILWRKDGVLVSTQDSRIKQLENGVL
 QIRYAKLGDTGRYTCLASTPSGEATWSAYIEVQEFQVQPPRPTDNLIPSAPSKPE
 VTDVSRNTVTLWQP NLNSGATPTS YII EAFSHASGSSWQTVAENVKTETSAIKGLK
 PNAIYLFVRAANAYGISDPSQISDPVKTQDVLPTSQGV D HKQVQRELGNV LHLHN
 PTVLSSSSIEVHWTVDQQSQYIQGYKILYRPSGANHGESDWLVFEVTRTPAKNSVVIP
 DLRKGVNYEIKARPPFFNEFQGADSEIKFAKTLEEAPSAPPQGVTVSKNDGNGTAILV
 SWQPPPEDTQNGMVQEYKVVWCLGNTRYHINKTVDGSTFSVVIPFLVPGIRYSVEV
 AASTGAGSGVKSEPPQFIQLDAHGNPVSPEDQVSLAQQISDVVKQPHHHHHHHH

Endotoxin	< 1 EU/μg by LAL.
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4
Concentration	1 mg/mL by BCA

GENE INFORMATION

Gene Name	ROBO1 roundabout guidance receptor 1 [Homo sapiens (human)]
Official Symbol	ROBO1

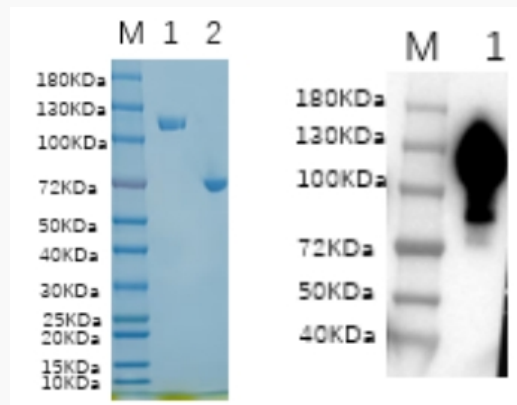
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Synonyms	ROBO1; roundabout guidance receptor 1; NORS; NYS8; SAX3; CPHD8; DUTT1; roundabout homolog 1; deleted in U twenty twenty; roundabout, axon guidance receptor, homolog 1
Gene ID	6091
mRNA Refseq	NM_133631
Protein Refseq	NP_598334
MIM	602430
UniProt ID	Q2M1J3

Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified ROBO1.



1. ROBO1: 1 μ g
2. BSA: 1 μ g

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