

## Recombinant Human ROBO2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ROBO2-2779H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | ROBO2 MS Standard C13 and N15-labeled recombinant protein (NP_001122401) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | The protein encoded by this gene belongs to the ROBO family, part of the immunoglobulin superfamily of proteins that are highly conserved from fly to human. The encoded protein is a transmembrane receptor for the slit homolog 2 protein and functions in axon guidance and cell migration. Mutations in this gene are associated with vesicoureteral reflux, characterized by the backward flow of urine from the bladder into the ureters or the kidney. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 152.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MARRHERVTRRMWTWAPGLLMMTVVFWGHQNGQGQGSRLRQEDFPPIVEHP<br>SDVIVSKGEPTTLNCKAEGRPPTIEWYKDERVETDKDDPRSHRMLLPSSLSLFFLR<br>IVHGRRSKPDEGSYVCVARNYLGEAVSRNASLEVALLRDDFRQNPTDVVVAAGEPA<br>ILECQPPRGHPPEPTIYWKDKVRIDDKEERISIRGGKLMISNTRKSDAGMYTCVGTN<br>MVGERDSDPAELTVFERPTFLRRPINQVVLEEEAVEFRCQVQGDQPQPTVRWKKDD<br>ADLPRGRYDIKDDYTLRIKKTMTSTDEGTMCIAENRVGKMEASATLTVRAPPQFVVR                                                                                                                                                           |

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PRDQIVAQGRTVTFPCETKGNPQPAVFWQKEGSQNLLFPNQPPQPNRCSVSPTG  
 DLTITNIQRSDAGYYICQALTVAGSILAKAQLEVTDVLTDRPPPIILQGPPANQTLAVDG  
 TALLKCKATGDPLPVISWLKEGFTFPGRDPRATIQEQGTLQIKNLRISDTGTYTCVAT  
 SSSGETSWSAVLDVTESGATISKNYDLSDLPGPPSKPQVTDVTKNSTLSWQPGTP  
 GTLPASAYIIEAFSQSVSNSWQTVANHVKTTLYTVRGLRPNTIYLFMVRAINPQGLSD  
 PSPMSDPVRTQDISPPAQGVDRQVQKELGDVLVRLHNPVLTPTTVQVTWTVDR  
 QPQFIQGYRVMYRQTSGLQATSSWQNLDAKVPTERSAVLVNLKKGVTYEIKVRPYF  
 NEFQGMDESSEKTVRTTEEAPSAPPQSVTVLTVGSYNSTSSISVSWDPPPPDHQNGIIQ  
 EYKIWCLGNETRFHINKTVDAAIRSVIIGGLFPGIQYRVEVAASTSAGVGVKSEPQPIII  
 GRRNEVVITENNNSITEQITDVVKQPAFIAGIGGACWVILMGFSIWLYWRRKKRKGLS  
 NYAVTFQRGDGGLMSNGSRPGLLNAGDPSYPWLADSWPATSLPVNNSNSGPNEIG  
 NFRGRDVLPPVPGQGDKTATMLSDGAIYSSIDFTTKTSYNSSSQITQATPYATTQILH  
 SNSIHELAVDLPDPQWKSSIQKTDLMGFGYSLPDQNKGNNGGKGGKKKKKNKNSS  
 KPQKNNGSTWANVPLPPPPVQPLPGTELEHYAVEQQENGYSWCPPLPVQTYL  
 HQGLEDELEEDDDRVPPTPPVRGVASSPAISFGQQSTATLTPSPREEMQPMQLAHLD  
 ELTRAYQFDIAKQTWHIQSNNQPPQPPVPLGYVSGALISDLETDVADDDADDEEEA  
 LEIPRPLRALDQTPGSSMDNLDSSVTGKAFTSSQRPRTSPFSTDSNTSAALSQSQ  
 RPRPTKKHKGGGRMDQQPALPHRREGMTDEEALVPYSKPSFPSPGGHSSSGTASSK  
 GSTGPRKTEVLRAGHQRNASDLLDIGYMGSNSQGQFTGELTRTRPLEQKLISEEDL  
 AANDILDYKDDDDKV

|                      |                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>     | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>       | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b> | 50 µg/mL as determined by BCA                                                              |

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

## GENE INFORMATION

**Gene Name** ROBO2 roundabout guidance receptor 2 [ Homo sapiens (human) ]

**Official Symbol** ROBO2

**Synonyms** ROBO2; roundabout, axon guidance receptor, homolog 2 (Drosophila); roundabout (axon guidance receptor, Drosophila) homolog 2; roundabout homolog 2; KIAA1568; SAX3;

**Gene ID** 6092

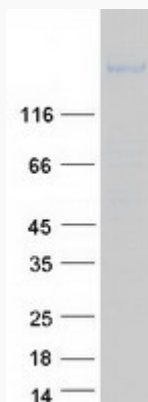
**mRNA Refseq** NM\_001128929

**Protein Refseq** NP\_001122401

**MIM** 602431

**UniProt ID** Q9HCK4

## SDS-PAGE



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