Recombinant Full Length Human ROBO2 Protein, C-Flag-tagged

Cat. No. ROBO2-674HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ROBO2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	152.9 kDa
AA Sequence	MARRHERVTRRMWTWAPGLLMMTVVFWGHQGNGQGQGSRLRQEDFPPRIVEHP SDVIVSKGEPTTLNCKA EGRPTPTIEWYKDGERVETDKDDPRSHRMLLPSGSLFFL RIVHGRRSKPDEGSYVCVARNYLGEAVSRNA SLEVALLRDDFRQNPTDVVVAAGE PAILECQPPRGHPEPTIYWKKDKVRIDDKEERISIRGGKLMISNTR KSDAGMYTCVG TNMVGERDSDPAELTVFERPTFLRRPINQVVLEEEAVEFRCQVQGDPQPTVRWKK

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	DDAD LPRGRYDIKDDYTLRIKKTMSTDEGTYMCIAENRVGKMEASATLTVRAPPQF VVRPRDQIVAQGRTVTFP CETKGNPQPAVFWQKEGSQNLLFPNQPQQPNSRCSV SPTGDLTITNIQRSDAGYYICQALTVAGSILAKA QLEVTDVLTDRPPPIILQGPANQTL AVDGTALLKCKATGDPLPVISWLKEGFTFPGRDPRATIQEQGTLQ IKNLRISDTGTYT CVATSSSGETSWSAVLDVTESGATISKNYDLSDLPGPPSKPQVTDVTKNSVTLSWQ P GTPGTLPASAYIIEAFSQSVSNSWQTVANHVKTTLYTVRGLRPNTIYLFMVRAINPQ GLSDPSPMSDPVR TQDISPPAQGVDHRQVQKELGDVLVRLHNPVVLTPTTVQVTW TVDRQPQFIQGYRVMYRQTSGLQATSSW QNLDAKVPTERSAVLVNLKKGVTYEIKV RPYFNEFQGMDSESKTVRTTEEAPSAPPQSVTVLTVGSYNST SISVSWDPPPPDH QNGIIQEYKIWCLGNETRFHINKTVDAAIRSVIIGGLFPGIQYRVEVAASTSAGVGV KS EPQPIIIGRRNEVVITENNNSITEQITDVVKQPAFIAGIGGACWVILMGFSIWLYWRRK KRKGLSNYA VTFQRGDGGLMSNGSRPGLLNAGDPSYPWLADSWPATSLPVNNSN SGPNEIGNFGRGDVLPPVPGQGDKT ATMLSDGAIYSSIDFTTKTSYNSSSQITQATP YATTQILHSNSIHELAVDLPDPQWKSSIQQKTDLMGFG YSLPDQNKGNNGGKGGKK KKNKNSSKPQKNNGSTWANVPLPPPPVQPLPGTELEHYAVEQQENGYDSDSW CP PLPVQTYLHQGLEDELEEDDDRVPTPPVRGVASSPAISFGQQSTATLTPSPREEMQ PMLQAHLDELTR AYQFDIAKQTWHIQSNNQPPQPPVPPLGYVSGALISDLETDVAD DDADDEEEALEIPRPLRALDQTPGSS MDNLDSSVTGKAFTSSQRPRPTSPFSTDSN TSAALSQSQRPRPTKKHKGGRMDQQPALPHRREGMTDEEA LVPYSKPSFPSPGGHSSSGTASSKGSTGPRKTEVLRAGHQRNASDLLDIGYMGSNS QGQFTGELTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

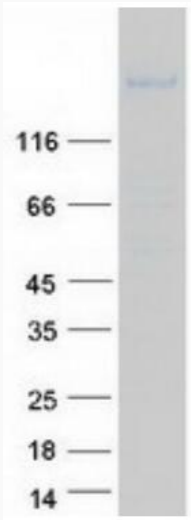
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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Axon guidance
Full Length	Full L.

GENE INFORMATION

Gene Name	ROBO2 roundabout guidance receptor 2 [Homo sapiens (human)]
Official Symbol	ROBO2
Synonyms	SAX3
Gene ID	6092
mRNA Refseq	NM_001128929.3
Protein Refseq	NP_001122401.1
MIM	602431
UniProt ID	Q9HCK4

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Coomassie blue staining of purified ROBO2 protein.

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