

Recombinant Mouse ROBO1 Protein (880-1612 aa), His-tagged

Cat. No. ROBO1-2415M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse ROBO1 Protein (880-1612 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cancer. Protein Description: Partial.
Species	Mouse
Source	Yeast
ProteinLength	880-1612 aa
Description	Receptor for SLIT1 and SLIT2 that mediates cellular responses to molecular guidance cues in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development. Interaction with the intracellular domain of FLRT3 mediates axon attraction towards cells expressing NTN1. In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex. Plays a role in the regulation of cell migration via its interaction with MYO9B; inhibits MYO9B-mediated stimulation of RHOA GTPase activity, and thereby leads to increased levels of active, GTP-bound RHOA. May be required for lung development.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	82.0 kDa
AA Sequence	YRHRKKRNLSTYAGIRKVPSTFTPTVTYQRGGEAVSSGGRPGLLNISEPATQP

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WLADTWPNTGNNHNDCSINCCTAGNGNSDSNLTTYSRPADCIANYNNQLDNKQTN
 LMLPESTVYGDVDLSNKNEMKTFNSPNLKDGRFVNPSGQPTPYATTQLIQANLSNN
 MNNGAGDSSEKHWKPPGQQKPEVAPIQYNIMEQNKLNDYRANDTIPPTIPYNQSY
 DQNTGGSYNSSDRGSSTSGSQGHKKGARTPKAPKQGGMNWADLLPPPPAHPPPH
 SNSEEYNMSVDESYPDQEMPCPVPPAPMYLQQDELQEEEDERGPTPPVRGAASSP
 AAVSYSHQSTATLTSPSQEELQPMLQDCPEDLGHPHPPDRRRQPVSPPPPPRPIS
 PPHTYGYISGPLVSDMDTDAPEEEEEDEADMEVAKMQTRRRLLRGLQTPASSVGDL
 ESSVTGSMINGWGSASEEDNISSGRSSVSSSDGSFFTDADFAQAVAAAAEYAGLKV
 ARRQMQDAAGRHRFHASQCPRPTSPVSTDSNMSAVVIQKARPAKKQKHQPGHLR
 REAYADDLPPPPVPPPAIKSPTVQSKAQLEVRPVMVPKLASIEARTDRSSDRKGGSY
 KGREALDGRQVTDLRTNPSDPREAQEQPNDGKGRGTRQPKRDLPPAKTHLGQEDI
 LPYCRPTFPTSNNPRDPSSSSSMSSRGSGSRQREQANVGRRNMAEMQVLGGFER
 GDENNEELEETES

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

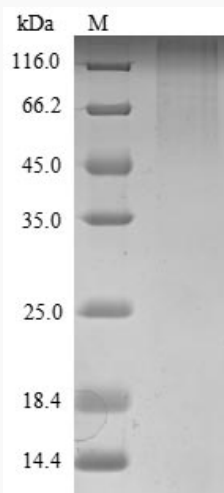
Gene Name Robo1 roundabout homolog 1 (Drosophila) [*Mus musculus*]

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Official Symbol	ROBO1
Synonyms	ROBO1; roundabout homolog 1 (Drosophila); roundabout homolog 1; DUTT1; Gm310; AW494633; AW742721;
Gene ID	19876
mRNA Refseq	NM_019413
Protein Refseq	NP_062286
UniProt ID	O89026



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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