

Recombinant Mouse Robo1 Protein, Myc/DDK-tagged

Cat. No. Robo1-5566M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length roundabout guidance receptor 1 (Robo1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	176.8 kDa
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 after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Robo1 roundabout guidance receptor 1 \[Mus musculus \(house mouse\) \]](#)

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](#)

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