

Recombinant Human ROBO4

Catalog No: #GP11966



Package Size: #GP11966-1 100ug

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Description

Product Name	Recombinant Human ROBO4
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to C terminal 207 amino acids of human roundabout, axon guidance receptor, homolog 4 (Drosophila)
Target Name	roundabout, axon guidance receptor, homolog 4 (Drosophila)
Other Names	MRB; ECSM4
Accession No.	Swissprot:Q8WZ75Gene Accession:BC111562
Uniprot	Q8WZ75
GenID	54538;
Storage	-20~-80°C, pH 7.6 PBS

Background

Robo4 (roundabout homolog 4 or magic roundabout) is a receptor for Slit proteins which implicate in angiogenesis and vascular patterning especially through facilitating inhibition of primary endothelial cell migration. It is a fairly recently identified member of Robo family and is shorter than other Robo members at both intracellular as well as extracellular domains. Robo4 plays important roles in several aspects of vascular development such as the guidance of endothelial cell migration, cell cycle regulation, inhibition of pathologic angiogenesis and endothelial hyperpermeability etc. Employing mouse and zebrafish models, Slit2/Robo4 interactions have been shown to maintain integrity of vascular network and its barrier function by inhibiting cytokine-mediated vasculogenesis with enhanced permeability, and that Slit2-Robo4-paxillin-GIT1 network inhibits neovascularization and vascular leakage. Moreover, single nucleotide polymorphism of Robo4 has been documented to be associated with autism suggesting its role in development and function of human brain.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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