ROBO4 Conjugated Antibody

Catalog No: #C40084

Package Size: #C40084-AF350 100ul #C40084-AF405 100ul #C40084-AF488 100ul #C40084-AF555 100ul #C40084-AF594 100ul #C40084-AF647 100ul #C40084-AF680 100ul #C40084-AF750 100ul #C40084-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	ROBO4 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total ROBO4 protein.
Immunogen Description	Fusion protein corresponding to residues near the C terminal of human roundabout, axon guidance receptor, homolog 4 (Drosophila)
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	MRB; ECSM4
Accession No.	Swiss-Prot#:Q8WZ75NCBI Gene ID:54538NCBI Protein#:BC111562
Uniprot	Q8WZ75
GeneID	54538;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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.

Note: This product is for in vitro research use only