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Robo4 Rabbit pAb

Catalog # AP96417

Product Information

Application	WB
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Robo4
Epitope Specificity	261-360/1007
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the immunoglobulin superfamily. ROBO family.Contains 2 fibronectin type-III domains.Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
SUBUNIT	Interacts with SLIT2 and ENAH.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Robo4 is a vascular specific receptor that is a repulsive cue to migrating endothelial cells during vascular development. Guidance and patterning of axons are orchestrated by cell surface receptors and ligands that provide directional cues. Interactions between the Robo receptor and Slit ligand families of proteins initiate signaling cascades that repel axonal outgrowth. In contrast to known neuronal Robo family members, the arrangement of the extracellular domains of Robo4 diverges significantly from that of all other Robo family members. Robo4 is specifically expressed in the vascular endothelium during murine embryonic development; the only Robo family member expressed in primary endothelial cells. Robo4 also has a role in regulating the migration of endothelial cells during tumor angiogenesis.

Additional Information

Gene ID	54538
Other Names	AOVD3; ECSM4; MRB; roundabout guidance receptor 4; roundabout homolog 4 (Drosophila); roundabout, axon guidance receptor, homolog 4 (Drosophila); magic roundabout
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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Function	Receptor for Slit proteins, at least for SLIT2, and seems to be involved in angiogenesis and vascular patterning. May mediate the inhibition of primary endothelial cell migration by Slit protein.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.