www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

Anti-Robo1 (C-terminal region) Antibody

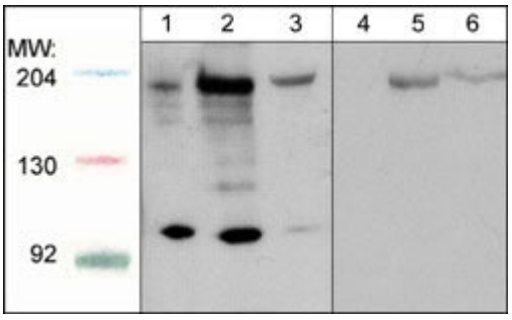
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Product Details

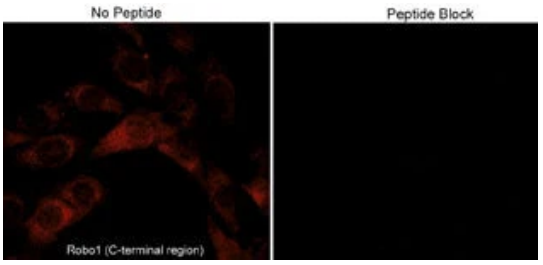
Available Variants	100 µL (SKU:RP2791)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	ROBO1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:500 ICC: 1:200
Species Reactivity	Human, Mouse, Rat
Immunogen	Robo1 synthetic peptide (coupled to carrier protein) corresponds to amino acids in the C-terminal region of human Robo1. This sequence has significant homology to the same region in rat and mouse Robo1, and has low homology to other Robo family members.
Specificity	The antibody detects a 180 kDa* band corresponding to Robo1 in Western blots of human HepG2 and HUVEC cells, as well as mouse C2C12 cells.
Molecular Weight	180
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	Q9Y6N7 UniProt Summary: 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.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	6091

Product Images



Western blot analysis of HepG2 (lanes 1 & 4), C2C12 (lanes 2 & 5), and HUVEC (lanes 3 & 6). The blot was probed with anti-Robo1 (C-terminal region) in absence (lanes 1-3) or presence of Robo1 (C-terminal region) blocking peptide (RX2795; lanes 4-6).



Immunocytochemical labeling of Robo1 in mouse C2C12. The cells were labeled with rabbit polyclonal Robo1 (C-terminal region) in the absence or presence of blocking peptide (RX2795). The antibody was then detected using appropriate secondary antibodies conjugated to Cy3.



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