

Rabbit Robo1 Polyclonal Antibody | anti-Robo1 antibody

Robo1 (C-Terminal Region)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71552	Rabbit	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

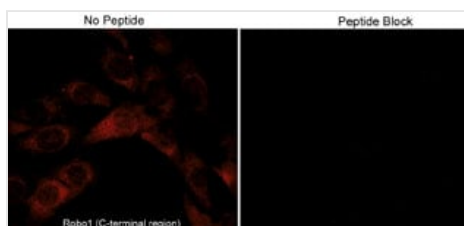
PRODUCT SYNONYMS

Robo1; Polyclonal Antibody; Robo1 (C-Terminal Region); roundabout; DUTT1; anti-Robo1 antibody

PRODUCT SPECIFICATIONS

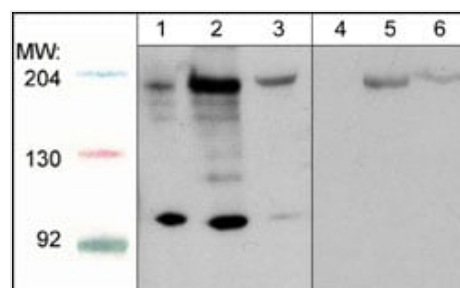
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody was affinity purified using Robo1 (C-terminal region) peptide. The purified antibody detects a 180 kDa* band corresponding to Robo1 in Western blots of human HepG2 and HUVEC cells, as well as mouse C2C12 cells.
Purity/Purification	Affinity Purified
Form/Format	Supplied in 100ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Sequence Length	1651
Applicable Applications for anti-Robo1 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
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.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

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.



WB (Western Blot)

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).

ADDITIONAL INFORMATION

Related Product Information for anti-Robo1 antibody	The Robo family of repulsive guidance receptors (Robo1-4) have important roles in controlling axon guidance and cell migration. These receptors are members of the immunoglobulin (Ig) superfamily and consist of an ectodomain with five Ig domains and three fibronectin type III repeats, a single transmembrane domain, and a long cytoplasmic tail that contains four blocks of conserved cytoplasmic sequences. In Drosophila, mutations in Robo, and its midline-expressed ligand Slit, result in too many axons crossing and staying at the midline. Several proteins that regulate the actin cytoskeleton, including cAbl, Ena, and Rho-family GTPases, contribute to the Robo signaling pathway. cAbl phosphorylates Robo1 at Tyr-1073, and this may inhibit Robo activity, while Slit-Robo signaling activates both Rac and Rho, and inactivates Cdc42. Thus, Robo guidance receptors control axon outgrowth and cell migration through activation of cell signaling pathways that regulate cytoskeletal dynamics.
References	Kidd, T. et al. (1998) Cell 92:205.Bashaw, G.J. et al. (2000). Cell 101:703.Yang, L. & Bashaw, G.J. (2006). Neuron 52:595.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506569
NCBI GeneID	6091
NCBI Accession #	NP_002932.1
NCBI GenBank Nucleotide #	NM_002941.4
UniProt Accession #	Q9Y6N7
Molecular Weight	180 kDa
NCBI Official Full Name	roundabout homolog 1 isoform a
NCBI Official Synonym Full Names	roundabout guidance receptor 1
NCBI Official Symbol	ROBO1
NCBI Official Synonym Symbols	SAX3; DUTT1
NCBI Protein Information	roundabout homolog 1
UniProt Protein Name	Roundabout homolog 1
UniProt Gene Name	ROBO1
UniProt Synonym Gene Names	DUTT1
UniProt Entry Name	ROBO1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/robo1-antibody-immunocytochemistry-western-blot-elisa/71552>