

Rabbit ROBO1 Polyclonal Antibody | anti-ROBO1 antibody

Rabbit Polyclonal to Human ROBO1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50688	Rabbit	Dog, Human, Mouse, Rat	ELISA, Western Blot, Immunofluorescence, Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

ROBO1; Polyclonal Antibody; Rabbit Polyclonal to Human ROBO1; Anti-ROBO1 Antibody (aa1632-1644) IHC-plus; Deleted in U twenty twenty; H-Robo-1; Roundabout 1; SAX3; DUTT1; Roundabout homolog 1; Human ROBO1; anti-ROBO1 antibody

PRODUCT SPECIFICATIONS

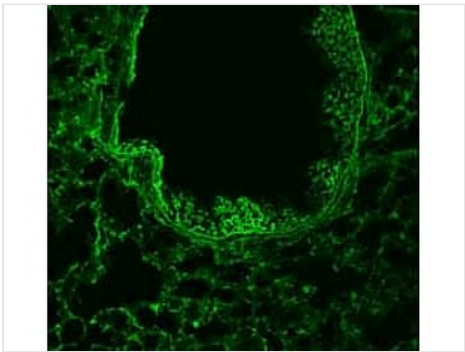
Host	Rabbit
Reactivity	Dog, Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Amino acids 1632-1644 of Human ROBO-1.
Purity/Purification	Immunoaffinity Purified
Form/Format	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
Concentration	1.1 mg/ml (varies by lot)
Sequence Length	1651
Applicable Applications for anti-ROBO1 antibody	ELISA, WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Target Species	Human
Immunogen Description	Synthetic peptide from human ROBO1.
Immunogen Type	Synthetic peptide
Immunogen	This affinity-purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an C-Terminal region near amino acids 1625-1650 of Human ROBO-1.
Epitope	aa1632-1644
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Long term: -20 degree C; Short term: +4 degree C. Avoid repeat freeze-thaw cycles.



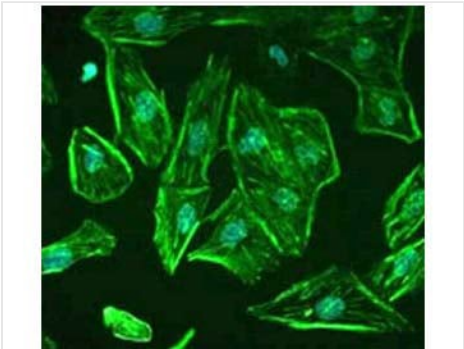
WB (Western Blot)

Western Blot - Anti-ROBO-1 Antibody. Western blot of Affinity Purified anti-ROBO-1 antibody shows detection of a band at ~181 kD corresponding to ROBO-1 present in mouse brain lysate (arrowhead). Approximately 35 ug of lysate was separated by 4-8% SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1000. Reaction occurred 2h at room temperature followed by washes and reaction with a 1:10000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX (for 45 min at room temperature. IRDye800 fluorescence image was captured using the Odyssey Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



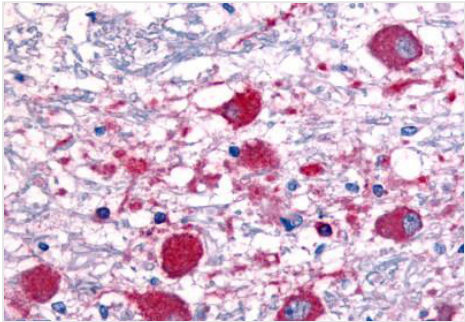
IF (Immunofluorescence)

Immunofluorescence - Anti-ROBO-1 Antibody. 1/50 staining mouse lung tissue sections (adult, frozen 100um whole mount sections) by IHC-Fr. The tissue was paraformaldehyde fixed and permeabilized with triton x-100 before incubation with the antibody for 16 hours at 4°C.



IF (Immunofluorescence)

Immunofluorescence - Anti-ROBO-1 Antibody. Staining of ROBO1 in undifferentiated, immortalized human podocytes by Immunocytochemistry/ Immunofluorescence. Cells were fixed with 2% paraformaldehyde and 4% sucrose at room temperature for 10 minutes. The cells were then washed once with PBS, permeabilized with 0.3% Triton X-100 for 10 minutes and incubated with blocking solution (2% FCS, 2% BSA, 0.2% fish gelatin) for 30 minutes, before further incubation with primary Ab for 1 hour. An Alexa Fluor 488 goat anti-rabbit IgG secondary antibody was used at a dilution of 1/200. DAPI was used for nuclear counterstaining. Image from Lindenmeyer MT et al. Systematic Analysis of a Novel Human Renal Glomerulus-Enriched Gene Expression Dataset. PLoS One. 2010 July 12;5(7): e11545, Fig 5.



IHC (Immunohistochemistry)

Anti-ROBO1 antibody IHC of human brain. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-ROBO1 antibody	Robo proteins are highly conserved transmembrane receptors that are expressed by growing axon tips. They play multiple parts in guiding axons to their correct locations in the developing brain and are particularly important for enabling axons to cross the midline. In all mammalian species studied so far, Robo is the receptor for Slit, a protein secreted by the midline of the nervous system.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506569
NCBI GeneID	6091
NCBI Accession #	NP_002932.1

NCBI GenBank Nucleotide #	NM_002941.3
UniProt Accession #	Q9Y6N7 ; Q1RMC7 ; Q7Z300 ; Q9BUS7 ; B2RXI1 ; D3DU36 ; E9PD49
Molecular Weight	169,661 Da
NCBI Official Full Name	roundabout homolog 1 isoform a
NCBI Official Synonym Full Names	roundabout, axon guidance receptor, homolog 1 (Drosophila)
NCBI Official Symbol	ROBO1
NCBI Official Synonym Symbols	SAX3; DUTT1
NCBI Protein Information	roundabout homolog 1; deleted in U twenty twenty
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/robo1-antibody-western-blot-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/50688>