

ROBO1 Polyclonal Antibody

Catalog NumberPA5-34932

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	<div>Tested ApplicationsDilution *</div>	
Class	Polyclonal		
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment contains a sequence corresponding to a region within amino acids 1451 and 1636 of ROBO1	Western Blot (WB)	1:500-1:3,000
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

PA5-34932 targets ROBO1 in IHC (P) and WB applications and shows reactivity with Human samples. The PA5-34932 immunogen is recombinant fragment contains a sequence corresponding to a region within amino acids 1451 and 1636 of ROBO1. Store product as a concentrated solution. Centrifuge briefly prior to opening the vial. For short-term storage (1-2 weeks), product can be stored at 4°C. For long-term storage, aliquot and store product at -20° C or below, avoiding multiple freeze-thaw cycles.

Background/Target Information

Specialized cells at the midline, which separates the left and right halves of the CNS, have a number of roles in directing growth cone behavior. In the vertebrate spinal cord, the insect ventral nerve cord and in C. elegans, midline cells produce guidance cues such as nectins and slit, which act as attractants and repellents, respectively. These cells may act as gatekeepers to prevent axons from crossing the midline and to induce a switch in growth cone responsiveness to guidance cues beyond the gateway. One such gatekeeper, Robo, is an axon guidance receptor that defines a novel subfamily of Ig superfamily proteins that are conserved from fruit flies to mammals. Robo acts as a receptor for the repellent Slit and functions in a cell-autonomous fashion. Non-crossing axons express high levels of Robo, whereas crossing axons express low levels of Robo before reaching the midline and high levels after they cross. Robo1 and Robo2 are two human homologs of the Drosophila protein Roundabout. Robo1 is also homologous to the C. elegans gene sax3, whereas Robo2 is homologous to the zebrafish gene astray.

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