

# ROBO1 polyclonal antibody

Catalog # PAB11258      Size 100 ug

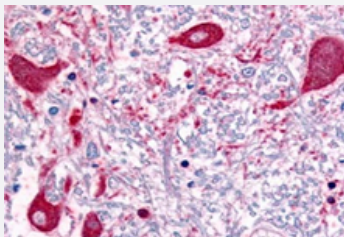
## Applications



### Western Blot (Tissue lysate)

Western blot using ROBO1 polyclonal antibody (Cat # PAB11258) shows detection of a band at ~181 kDa corresponding to ROBO1 present in mouse brain lysate (arrowhead).

Approximately 35 ug of lysate was separated by 4-8% SDS-PAGE and probed with the primary antibody diluted to 1:1,000.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of ROBO1 polyclonal antibody (Cat # PAB11258) was used at a concentration of 5 ug/mL to detect ROBO1 in a variety of tissues including multi-human, multi-brain and multi-cancer slides.

This image shows staining of human brain tissue.

Tissue was formalin-fixed and paraffin embedded.

Personal Communication, Tina Roush, Life Span Biosciences, Seattle, WA.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of ROBO1.
<b>Immunogen</b>	A synthetic peptide corresponding to amino acids 1632-1644 of human ROBO1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Dog, Human, Mouse, Rat
<b>Specificity</b>	This affinity purified antibody is directed against human ROBO-1 protein. Cross reactivity will occur with all isoforms of ROBO-1.
<b>Form</b>	Liquid

Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:30000-1:160000) Western Blot (1:500-1:3000) Immunohistochemistry (2-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — ROBO1

Entrez GeneID	<a href="#">6091</a>
Protein Accession#	<a href="#">Q9Y6N7:NP_002932(isoforma)</a>
Gene Name	ROBO1
Gene Alias	DUTT1, FLJ21882, MGC131599, MGC133277, SAX3
Gene Description	roundabout, axon guidance receptor, homolog 1 (Drosophila)

Omim ID [602430](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

Bilateral symmetric nervous systems have special midline structures that establish a partition between the two mirror image halves. Some axons project toward and across the midline in response to long-range chemoattractants emanating from the midline. The product of this gene is a member of the immunoglobulin gene superfamily and encodes an integral membrane protein that functions in axon guidance and neuronal precursor cell migration. This receptor is activated by SLIT-family proteins, resulting in a repulsive effect on glioma cell guidance in the developing brain. A related gene is located at an adjacent region on chromosome 3. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations** axon guidance receptor|roundabout 1

## Publication Reference

- [Induction of tumor angiogenesis by Slit-Robo signaling and inhibition of cancer growth by blocking Robo activity.](#)

Wang B, Xiao Y, Ding BB, Zhang N, Yuan X, Gui L, Qian KX, Duan S, Chen Z, Rao Y, Geng JG.  
Cancer Cell 2003 Jul; 4(1):19.

Application: IHC-P, WB, Human, Mouse, HEK 293 cells, HUVECs, Mouse tumors

- [Quantification of expression of netrins, slits and their receptors in human prostate tumors.](#)

Latil A, Chene L, Cochant-Priollet B, Mangin P, Fournier G, Berthon P, Cussenot O.  
International Journal of Cancer 2003 Jan; 103(3):306.

- [Robo1 and Robo2 are homophilic binding molecules that promote axonal growth.](#)

Hivert B, Liu Z, Chuang CY, Doherty P, Sundaresan V.  
Molecular and Cellular Neurosciences 2002 Dec; 21(4):534.

Application: IF, WB-Tr, Mouse, 3T3, Retinal ganglion cells

## Pathway

- [Axon guidance](#)

## Disease

- [Asthma](#)

- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)