



Anti-ROBO1 polyclonal antibody (DPAB-DC2716)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
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Specificity	This antibody is expected to recognize both reported isoforms (NP_002932.1; NP_598334.1).
Immunogen	A synthetic peptide corresponding to human ROBO1. The sequence is C-GDVDSLNNKINEMK
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB (Cell lysate), ELISA,
Format	Liquid
Concentration	0.5 mg/mL
Size	100 µg
Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)

Preservative	0.02% Sodium Azide
Storage	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ROBO1 roundabout, axon guidance receptor, homolog 1 (Drosophila) [Homo sapiens (human)]
Official Symbol	ROBO1
Synonyms	ROBO1; roundabout, axon guidance receptor, homolog 1 (Drosophila); SAX3; DUTT1; roundabout homolog 1; deleted in U twenty twenty;
Entrez Gene ID	6091
Protein Refseq	NP_001139317
UniProt ID	Q9Y6N7
Chromosome Location	3p12
Pathway	Activation of Rac; Developmental Biology; Netrin-1 signaling; Role of Abl in Robo-Slit signaling
Function	LRR domain binding; axon guidance receptor activity; identical protein binding; protein binding