



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.
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-GDVDLSNKINEMK
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