



# Anti-ROBO1 (aa 491-589) polyclonal antibody (DPAB-DC2717)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Immunogen</b>	ROBO1 (NP_002932, 491 a.a. ~ 589 a.a) partial recombinant protein with GST tag. The sequence is DGVLVSTQDSRIKQLENGVLQIRYAKLGDGTGRYTCTASTPSGEATWSAYIEVQEFQVPVQ PPRPTDNLIPSAPSKPEVTDVSRNTVTLWQPNLNSGA
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">ROBO1 roundabout, axon guidance receptor, homolog 1 (Drosophila) [ Homo sapiens (human) ]</a>
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	<a href="#">6091</a>
Protein Refseq	<a href="#">NP_001139317</a>
UniProt ID	<a href="#">Q9Y6N7</a>
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