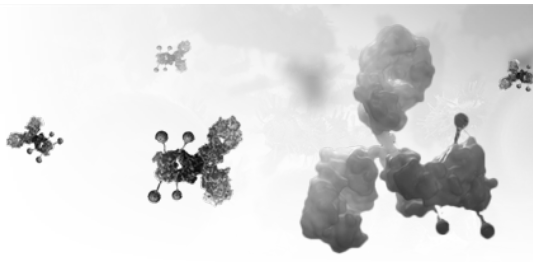

ROBO1 peptide (DAG-P1117)

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. [provided by RefSeq, Mar 2009]
Specificity	Widely expressed, with exception of kidney.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the immunoglobulin superfamily. ROBO family.Contains 3 fibronectin type-III domains.Contains 5 Ig-like C2-type (immunoglobulin-like) domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ROBO1 roundabout, axon guidance receptor, homolog 1 (Drosophila) [Homo sapiens (human)]
Official Symbol	ROBO1

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Synonyms	ROBO1; roundabout, axon guidance receptor, homolog 1 (Drosophila); SAX3; DUTT1; roundabout homolog 1; deleted in U twenty twenty;
Entrez Gene ID	6091
mRNA Refseq	NM_001145845.1
Protein Refseq	NP_001139317.1
UniProt ID	Q9Y6N7
Chromosome Location	3p12
Pathway	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Inactivation of Cdc42 and Rac, organism-specific biosystem; Netrin-1 signaling, organism-specific biosystem; Regulation of Commissural axon pathfinding by Slit and Robo, organism-specific biosystem; Role of Abl in Robo-Slit signaling, organism-specific biosystem; Signaling by
Function	LRR domain binding; axon guidance receptor activity; identical protein binding; protein binding; protein heterodimerization activity;

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