



Anti-ROBO1 polyclonal antibody [Biotin] (DPABY-670)

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

PRODUCT INFORMATION

Antigen Description	Members of the ROBO family are a group of highly conserved transmembrane glycoproteins that make up a small subgroup of the immunoglobulin (Ig) superfamily. They are characterized structurally by five C2-type Ig-like repeats, three fibronectin type III domains, a transmembrane region, and an intracellular domain with three (ROBO3) or four (ROBO1, 2) CC (conserved cytoplasmic) motifs. ROBO4, a fourth putative family member, has been identified, but lacks one of the three fibronectin-like domains and two of the five Ig-like domains. ROBOs are best known for their roles as receptors for the Slit family of repellent axon guidance cues.
Specificity	Detects rat ROBO1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.5% cross-reactivity with recombinant human ROBO3 and recombinant mouse ROBO3 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat ROBO1. Lys19-Ile560 Accession Number O55005
Isotype	IgG
Source/Host	Goat
Species Reactivity	Rat
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg

of bovine serum albumin (BSA) per 1 µg of antibody.

Preservative	None
Storage	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 °C to - 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at - 20 °C to -70 °C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Robo1 roundabout, axon guidance receptor, homolog 1 (Drosophila) [Rattus norvegicus (Norway rat)]
Official Symbol	ROBO1
Synonyms	ROBO1; roundabout, axon guidance receptor, homolog 1 (Drosophila); roundabout homolog 1;
Entrez Gene ID	58946
Protein Refseq	NP_071524
UniProt ID	Q55005
Chromosome Location	11p11
Pathway	Activation of Rac; Axon guidance; Developmental Biology; Inactivation of Cdc42 and Rac; Netrin-1 signaling; Regulation of Commissural axon pathfinding by Slit and Robo; Role of Abl in Robo-Slit signaling; Signaling by Robo receptor;
Function	LRR domain binding; axon guidance receptor activity; identical protein binding; protein binding; protein heterodimerization activity;