

**Goat Anti-ROBO1 / DUTT1 (Internal) Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1940a

**Specification**

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**Goat Anti-ROBO1 / DUTT1 (Internal) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9Y6N7</a>
Other Accession	<a href="#">NP_001139317</a> , <a href="#">6091</a> , <a href="#">19876 (mouse)</a> , <a href="#">58946 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	180930

**Goat Anti-ROBO1 / DUTT1 (Internal) Antibody - Additional Information**

**Gene ID** 6091

**Other Names**

Roundabout homolog 1, Deleted in U twenty twenty, H-Robo-1, ROBO1, DUTT1

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-ROBO1 / DUTT1 (Internal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-ROBO1 / DUTT1 (Internal) Antibody - Protein Information**

**Name** ROBO1

**Synonyms** DUTT1

**Function**

Receptor for SLIT1 and SLIT2 that mediates cellular responses to molecular guidance cues in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development (PubMed:<a

<http://www.uniprot.org/citations/10102268> target="\_blank">10102268</a>, PubMed:<a href="http://www.uniprot.org/citations/24560577" target="\_blank">24560577</a>. Interaction with the intracellular domain of FLRT3 mediates axon attraction towards cells expressing NTN1 (PubMed:<a href="http://www.uniprot.org/citations/24560577" target="\_blank">24560577</a>). In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex (By similarity). Plays a role in the regulation of cell migration via its interaction with MYO9B; inhibits MYO9B-mediated stimulation of RHOA GTPase activity, and thereby leads to increased levels of active, GTP-bound RHOA (PubMed:<a href="http://www.uniprot.org/citations/26529257" target="\_blank">26529257</a>). May be required for lung development (By similarity).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:O89026}. Endoplasmic reticulum-Golgi intermediate compartment membrane {ECO:0000250|UniProtKB:O55005}; Single-pass membrane protein {ECO:0000250|UniProtKB:O55005} Note=Detected at growth cones in thalamus neurons. Detected at growth cones in thalamus neurons (By similarity). PRRG4 prevents cell surface location and both colocalize in the Endoplasmic reticulum/Golgi adjacent to the cell nucleus (By similarity) {ECO:0000250|UniProtKB:O55005, ECO:0000250|UniProtKB:O89026}

#### Tissue Location

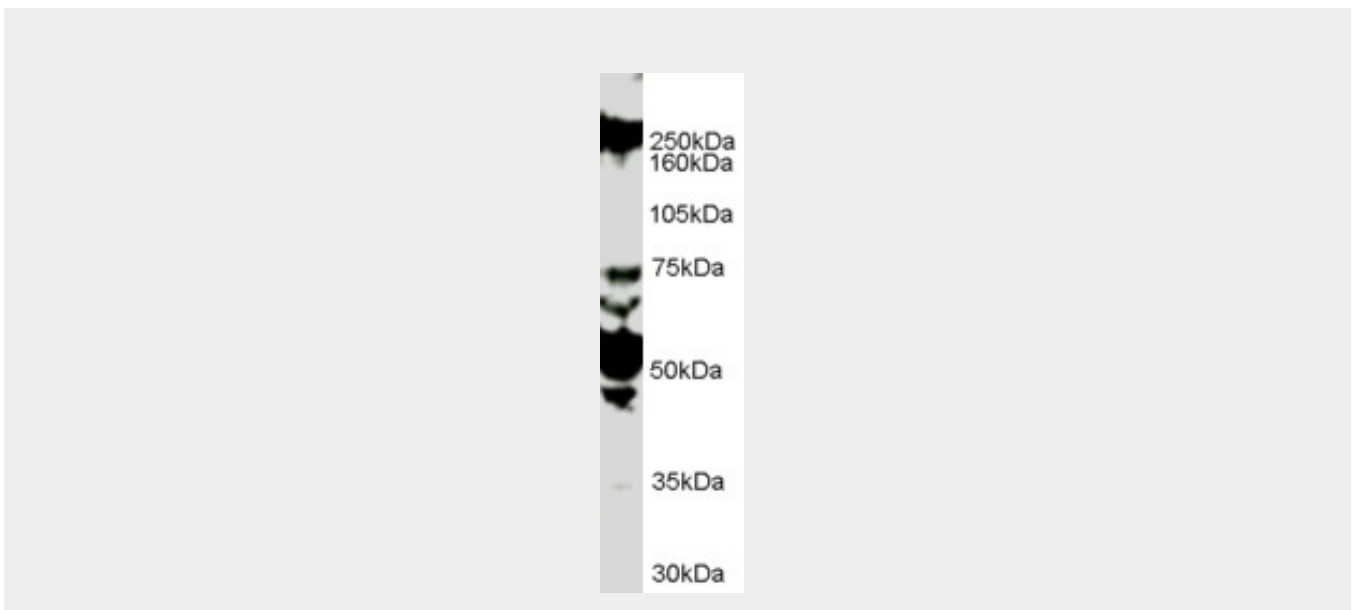
Widely expressed, with exception of kidney.

#### Goat Anti-ROBO1 / DUTT1 (Internal) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Goat Anti-ROBO1 / DUTT1 (Internal) Antibody - Images



AF1940a (1  $\mu\text{g/ml}$ ) staining of HUVEC lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.