

**Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR)
Recombinant Antibody
Catalog # APR11023**

Specification

Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR) - Product Information

Application	FC, E, FTA
Primary Accession	Q9Y6N7
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	150 KDa

Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR) - Additional Information

Target/Specificity
ROBO1

Endotoxin
< 0.001EU/ µg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR) - 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:[10102268](http://www.uniprot.org/citations/10102268), PubMed:[24560577](http://www.uniprot.org/citations/24560577)). Interaction with the intracellular domain of FLRT3 mediates axon attraction towards cells expressing NTN1 (PubMed:[24560577](http://www.uniprot.org/citations/24560577)).

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:26529257). 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

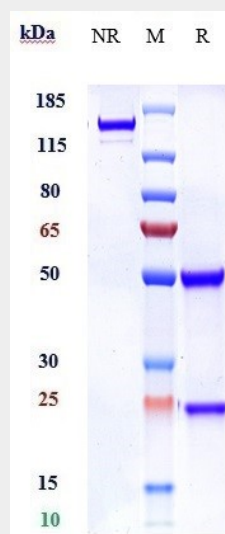
Widely expressed, with exception of kidney.

Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR) - Protocols

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

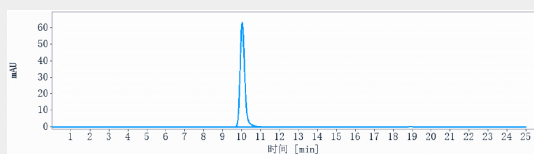
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR) - Images



Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein

is greater than 95%



The purity of Anti-ROBO1 Reference Antibody (Asclepius Technology patent anti-Robo1 CAR) is more than 95% ,determined by SEC-HPLC.