

ROBO1 Polyclonal antibody

Catalog Number: 25181-1-AP

Basic Information

Catalog Number: 25181-1-AP	GenBank Accession Number: BC112336	Purification Method: Antigen affinity purification
Size: 400 ug/ml	GeneID (NCBI): 6091	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: Q9Y6N7	IHC 1:50-1:500
Isotype: IgG	Full Name: roundabout, axon guidance receptor, homolog 1 (Drosophila)	IF-P 1:50-1:500
Immunogen Catalog Number: AG16461	Calculated MW: 1651 aa, 181 kDa	IF/ICC 1:50-1:500
	Observed MW: 200-250 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HeLa cells, HepG2 cells, Y79 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human brain tissue, mouse brain tissue
	IF-P : mouse brain tissue,
	IF/ICC : HeLa cells,

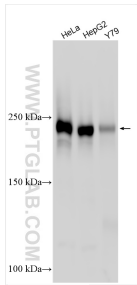
Background Information

ROBO1, also named as DUTT1, belongs to the immunoglobulin superfamily and ROBO family. It is a receptor for SLIT1 and SLIT2 which are thought to act as molecular guidance cue in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development. In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex. It may be required for lung development.

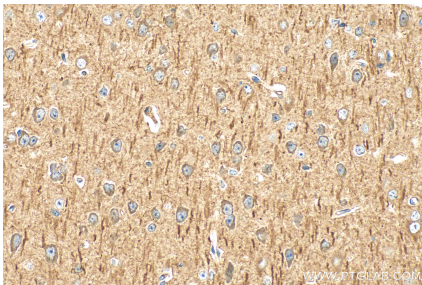
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

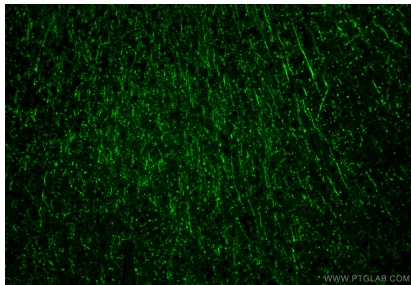
Selected Validation Data



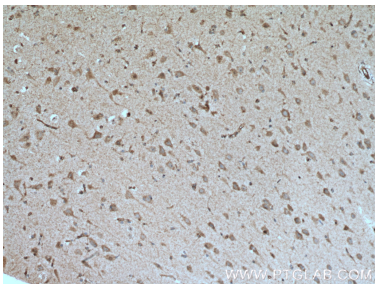
Various lysates were subjected to SDS PAGE followed by western blot with 25181-1-AP (ROBO1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



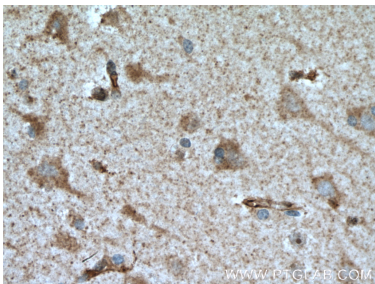
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25181-1-AP (ROBO1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



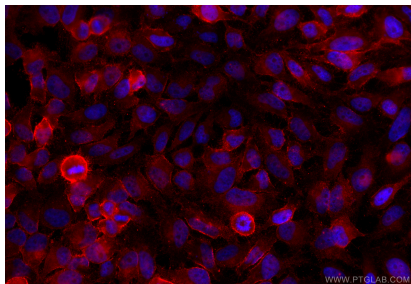
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using ROBO1 antibody (25181-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 25181-1-AP (ROBO1 Antibody) at dilution of 1:50 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 25181-1-AP (ROBO1 Antibody) at dilution of 1:50 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ROBO1 antibody (25181-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).