

For Research Use Only

# ROBO3-Specific Polyclonal antibody



Catalog Number: 20220-1-AP

1 Publications

## Basic Information

<b>Catalog Number:</b> 20220-1-AP	<b>GenBank Accession Number:</b> NM_022370	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 64221	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> roundabout, axon guidance receptor, homolog 3 (Drosophila)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 148 kDa	
	<b>Observed MW:</b> 148 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, rat brain tissue
<b>Cited Applications:</b> IF	<b>IHC :</b> human gliomas tissue, human brain tissue
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ROBO3 belongs to the immunoglobulin superfamily and ROBO family. ROBO3 is thought to be involved during neural development in axonal navigation at the ventral midline of the neural tube. In spinal cord development, it plays a role in guiding commissural axons probably by preventing premature sensitivity to Slit proteins thus inhibiting Slit signaling through ROBO1. It is required for hindbrain axon midline crossing. Defects in ROBO3 are a cause of familial horizontal gaze palsy with progressive scoliosis (HGPPS). Patients show a medulla where motor and sensory projections appear uncrossed. The antibody is specific to ROBO3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Oliva Palander	33872598	J Biol Chem	IF

## 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

\*\*\* 20ul sizes contain 0.1% BSA

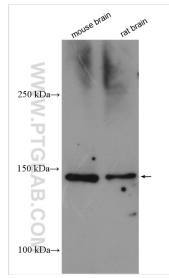
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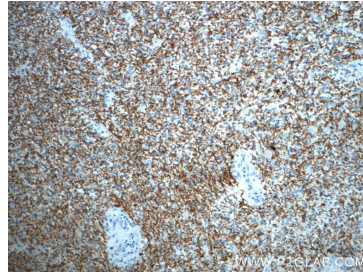
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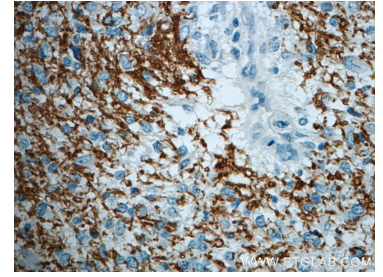
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20220-1-AP (ROBO3-Specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas slide using 20220-1-AP (ROBO3-Specific Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human gliomas slide using 20220-1-AP (ROBO3-Specific Antibody) at dilution of 1:50.