

For Research Use Only

# PLXNB1 Polyclonal antibody

Catalog Number: 29440-1-AP



## Basic Information

<b>Catalog Number:</b> 29440-1-AP	<b>GenBank Accession Number:</b> BC146793	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 600 µg/ml	<b>GeneID (NCBI):</b> 5364	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43157	
<b>Isotype:</b> IgG	<b>Full Name:</b> plexin B1	
<b>Immunogen Catalog Number:</b> AG31224	<b>Calculated MW:</b> 2135 aa, 232 kDa	
	<b>Observed MW:</b> 200-250 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat

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

### Positive Controls:

WB : mouse brain tissue, rat brain tissue

IHC : mouse brain tissue,

## Background Information

Semaphorins, originally identified as axon guidance molecules, have also been implicated in angiogenesis, immunoregulation, and cancer (PMID: 16584533). Plexins are main receptors for semaphorins and are thought to control many of the functional effects of semaphorins. PLXNB1 is one of the three plexin-B family members. It is a high-affinity receptor for semaphorin 4D (SEMA4D). Interaction of SEMA4D and PLXNB1 has important physiologic effects in the immune and nervous systems, and is also involved in tumor progression, especially in tumor angiogenesis (PMID: 20858260).

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

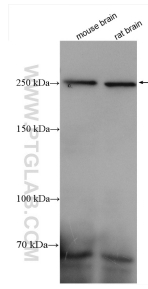
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

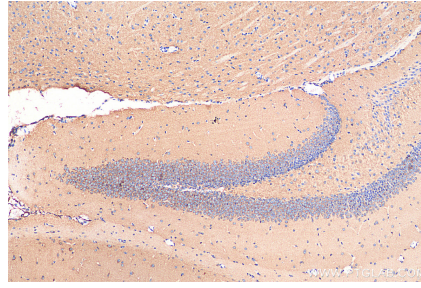
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29440-1-AP (PLXNB1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29440-1-AP (PLXNB1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).