

PLXNB1 Polyclonal antibody

Catalog Number: 29440-1-AP

Basic Information

Catalog Number:

29440-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG31224

GenBank Accession Number:

BC146793

GeneID (NCBI):

5364

UNIPROT ID:

O43157

Full Name:

plexin B1

Calculated MW:

2135 aa, 232 kDa

Observed MW:

200-250 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

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:

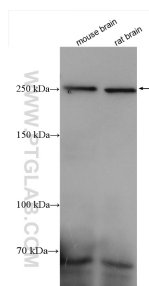
Store at -20°C.

Storage Buffer:

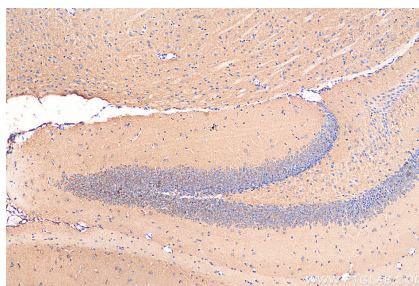
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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).