

For Research Use Only

Plexin B2 Polyclonal antibody

Catalog Number: 10602-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

10602-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 547 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0941

GenBank Accession Number:

BC004542

GeneID (NCBI):

23654

UNIPROT ID:

O15031

Full Name:

plexin B2

Calculated MW:

205 kDa

Observed MW:

80 kDa, 240 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:400-1:1600

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, chicken, goat

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: A549 cells, HEK-293 cells, HeLa cells, HepG2 cells, human brain tissue, MCF-7 cells, mouse liver tissue, mouse ovary tissue

IP: mouse liver tissue,

IHC: human tonsillitis tissue, human liver cancer tissue, human breast cancer tissue, human gliomas tissue

IF/ICC: HepG2 cells,

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. PLXNB2 is one of the three plexin-B family members which participate in axon guidance and cell migration in response to semaphorins. It has been reported that plexin B2 precursor is 240 kDa and can be cleaved into alpha subunit (~170-kDa) and beta subunit (80-kDa) (PMID: 12533544). This antibody raised against 1542-1841aa of human plexin B2 can recognize precursor and beta subunit of plexin B2.

Notable Publications

Author	Pubmed ID	Journal	Application
Katrin Gerstmann	36399562	Sci Adv	IF
Xiaonan Liu	33758201	Nat Commun	WB
Rongpan Bai	32510170	EMBO J	WB,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

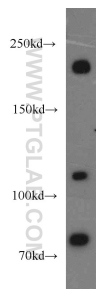
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

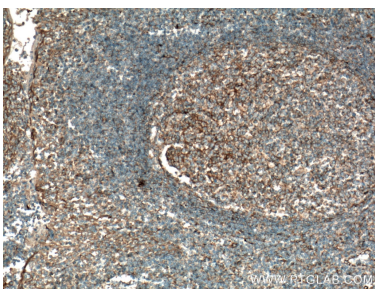
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

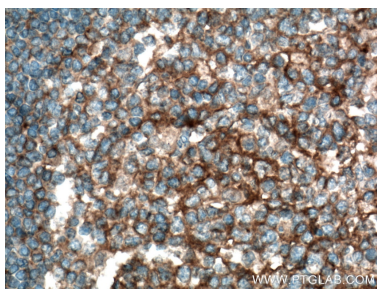
Selected Validation Data



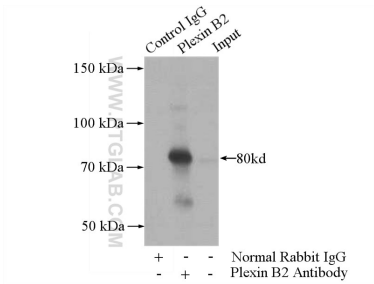
A549 cells were subjected to SDS PAGE followed by western blot with 10602-1-AP (Plexin B2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



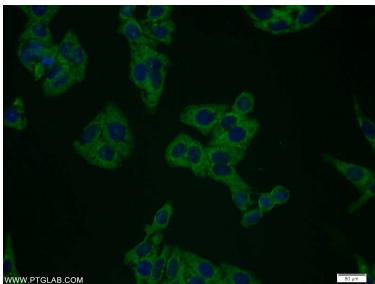
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10602-1-AP (Plexin B2 antibody) at dilution of 1:800 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10602-1-AP (Plexin B2 antibody) at dilution of 1:800 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Plexin B2 (IP:10602-1-AP, 4ug; Detection:10602-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



Immunofluorescent analysis of HepG2 cells using 10602-1-AP (Plexin B2 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).