

For Research Use Only

Plexin B2 Polyclonal antibody

Catalog Number: 10602-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number: 10602-1-AP	GenBank Accession Number: BC004542	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop and 547 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23654	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
Source: Rabbit	Full Name: plexin B2	IHC 1:400-1:1600 IF 1:10-1:100
Isotype: IgG	Calculated MW: 205 kDa	
Immunogen Catalog Number: AG0941	Observed MW: 80 kDa, 240 kDa	

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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: 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

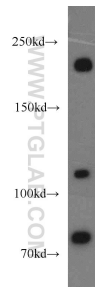
For technical support and original validation data for this product please contact:

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

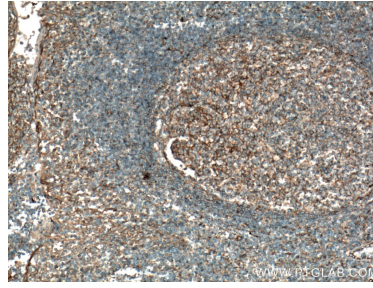
E: proteintech@ptglab.com
W: ptglab.com

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

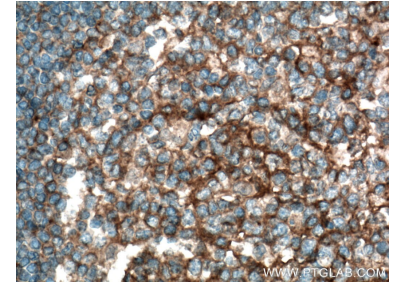
Selected Validation Data



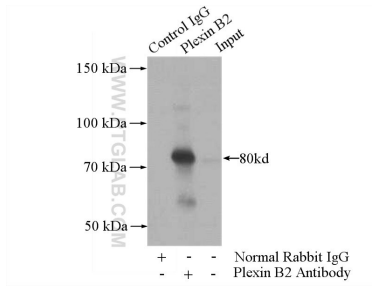
A549 cells were subjected to SDS PAGE followed by western blot with 10602-1-AP (Plexin B2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



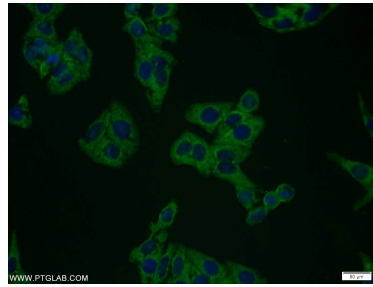
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10602-1-AP (Plexin B2 antibody) at dilution of 1:800 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure Goat Anti-Rabbit IgG(H+L).