For Research Use Only

GEMIN5 Polyclonal antibody

Catalog Number:24897-1-AP Featured Product 5 Publications

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Basic Information

Catalog Number:
24897-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG19268

GenBank Accession Number:
BC113614

GeneID (NCBI):
25929

UNIPROT ID:
Q8TEQ6

Full Name:
gem (nuclear organelle) associated protein 5

Calculated MW:
1508 aa, 169 kDa

Observed MW:
168 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500
IF/ICC: 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse

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 : HEK-293 cells, HeLa cells, Jurkat cells

IP : HeLa cells,

IHC : mouse cerebellum tissue,

IF/ICC : HeLa cells,

Background Information

GEMIN5 also named as Gem associated protein 5 is a 1508 amino-acid protein, which belongs to the WD repeat gemin-5 family. The molecular weight of GEMIN5 is 168 kDa GEMIN5 is a component of SMN complex, which plays an essential role in spliceosomal snRNP assembly in the cytoplasm and is required for pre-mRNA splicing in the nucleus. GEMIN5 is identified as the factor that allows the SMN complex to distinguish snRNAs from other cellular RNAs for snRNP biogenesis. GEMIN5 is found in nucleoplasm, nuclear bodies and cytoplasm.

Notable Publications

Author	Pubmed ID	Journal	Application
Deepa S Rajan	35295849	Front Cell Dev Biol	WB
Dongxu Jiang	29537490	FEBS Lett	WB,IF
Paulina Podszywałow-Bartnicka	41860998	Sci Adv	WB

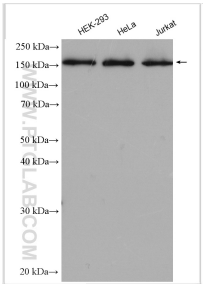
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

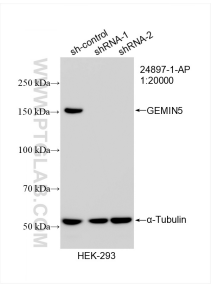
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

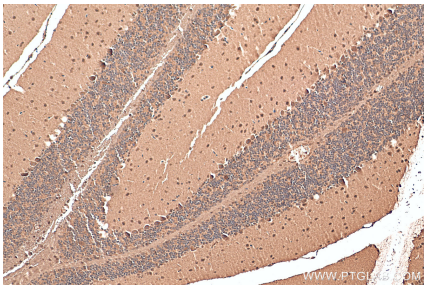
Selected Validation Data



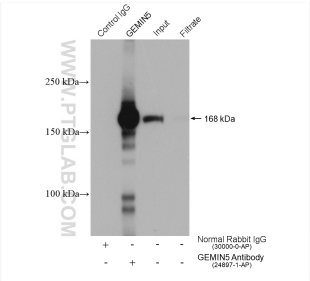
Various lysates were subjected to SDS PAGE followed by western blot with 24897-1-AP (GEMIN5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



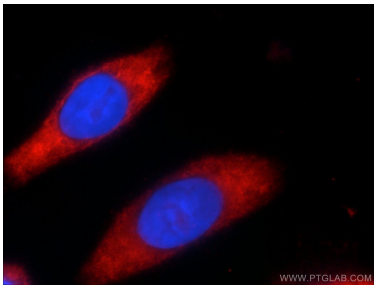
WB result of GEMIN5 antibody (24897-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GEMIN5 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 24897-1-AP (GEMIN5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GEMIN5 (IP:24897-1-AP, 4ug; Detection:24897-1-AP 1:1000) with HeLa cells lysate 1880 ug.



Immunofluorescent analysis of HeLa cells using 24897-1-AP (GEMIN5 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.