

For Research Use Only

GPM6B Polyclonal antibody, PBS Only

Catalog Number: 26122-1-PBS



Basic Information

Catalog Number:

26122-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG23507

GenBank Accession Number:

BC047295

GeneID (NCBI):

2824

UNIPROT ID:

Q13491

Full Name:

glycoprotein M6B

Observed MW:

27-36 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF-P, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

GPM6B (Glycoprotein M6B) is a highly conserved, multi-pass transmembrane glycoprotein encoded by the GPM6B gene on human chromosome Xp22.2. As a member of the proteolipid protein family, it is predominantly expressed in the central nervous system (in neurons and oligodendrocytes) and is involved in key processes such as myelination, regulation of serotonin transporter (SERT) trafficking, and actin cytoskeleton maintenance. Beyond neural functions, GPM6B also promotes bone formation by regulating osteoblast mineralization and influences smooth muscle cell differentiation via the TGF beta Smad2/3 pathway. Subcellularly, it localizes to the plasma membrane and lipid rafts. Genetic variations in GPM6B have been associated with several disorders, including Pelizaeus Merzbacher disease, major depressive disorder, and osteoarthritis.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

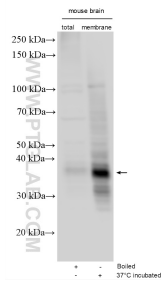
T: 4006900926

E: Proteintech-CN@ptglab.com

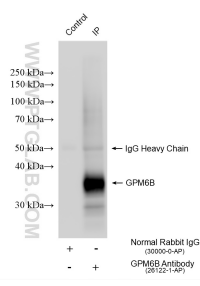
W: ptgcn.com

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

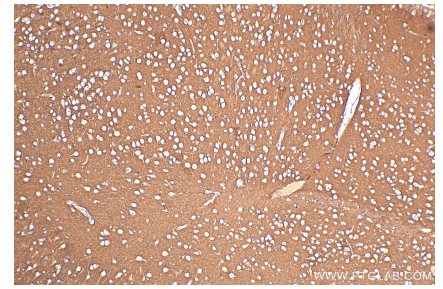
Selected Validation Data



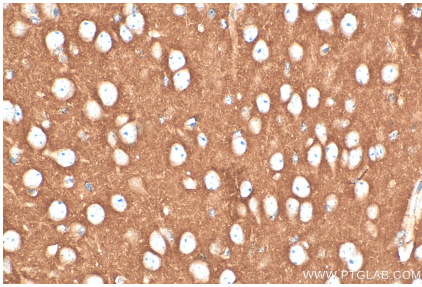
Various lysates were subjected to SDS PAGE followed by western blot with 26122-1-AP (GPM6B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 26122-1-PBS in a different storage buffer formulation.



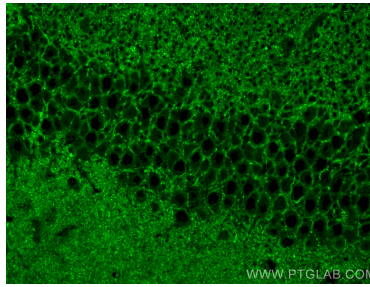
IP result of anti-GPM6B (IP:26122-1-AP, 4ug; Detection:26122-1-AP 1:1000) with rat brain tissue lysate 1720 ug. This data was developed using the same antibody clone with 26122-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26122-1-AP (GPM6B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26122-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26122-1-AP (GPM6B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26122-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using GPM6B antibody (26122-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 26122-1-PBS in a different storage buffer formulation.