

For Research Use Only

GM2A Polyclonal antibody

Catalog Number: 10864-2-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

10864-2-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1295

GenBank Accession Number:

BC009273

GeneID (NCBI):

2760

UNIPROT ID:

P17900

Full Name:

GM2 ganglioside activator

Calculated MW:

22 kDa

Observed MW:

22 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: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, 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 : rat kidney tissue, mouse kidney tissue

IP : HEK-293 cells,

IHC : human placenta tissue,

FC (Intra) : HEK-293 cells,

Background Information

GM2A, also named as GM2-AP and SAP-3, is the large binding pocket which can accommodate several single chain phospholipids and fatty acids. GM2A also exhibits some calcium-independent phospholipase activity. It plays a key role in the degradation of ganglioside GM2 (GM2). GM2A stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------------|-----------|-------------------|-------------|
| Yi-Chen Hsieh | 36131294 | Mol Neurodegener | WB |
| Sebastian Boland | 36207292 | Nat Commun | WB |
| Olga Eleftheriadou | 28526910 | Basic Res Cardiol | 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:

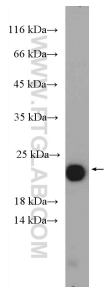
T: 4006900926

E: Proteintech-CN@ptglab.com

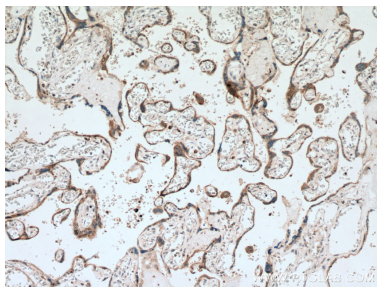
W: ptgcn.com

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

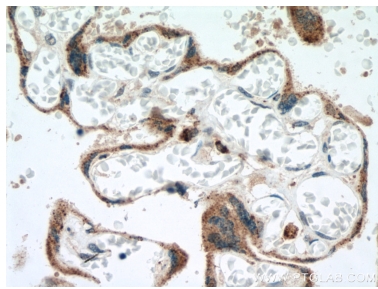
Selected Validation Data



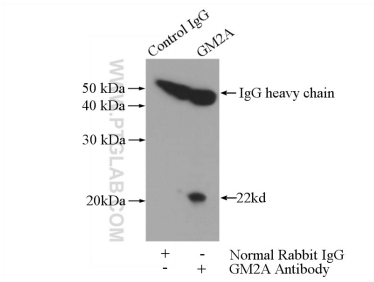
rat kidney tissue were subjected to SDS PAGE followed by western blot with 10864-2-AP (GM2A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



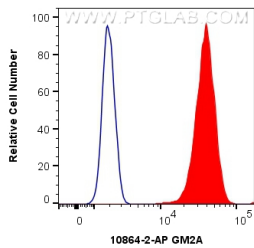
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10864-2-AP (GM2A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10864-2-AP (GM2A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GM2A (IP:10864-2-AP, 3ug; Detection:10864-2-AP 1:600) with HEK-293 cells lysate 2800ug.



1X10⁶ HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human GM2A (10864-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.