

For Research Use Only

# GM2A Polyclonal antibody

Catalog Number: 10864-2-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

10864-2-AP

**Size:**

350 µg/ml

**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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

FC, IHC, IP, WB, 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,

## 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

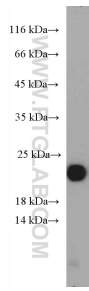
T: 4006900926

E: Proteintech-CN@ptglab.com

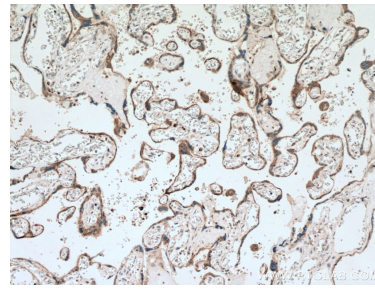
W: ptgcn.com

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

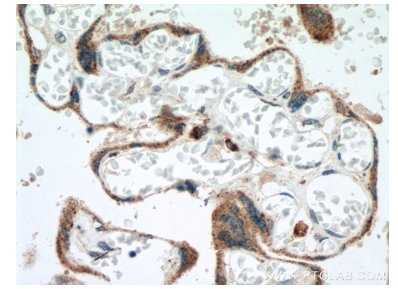
## Selected Validation Data



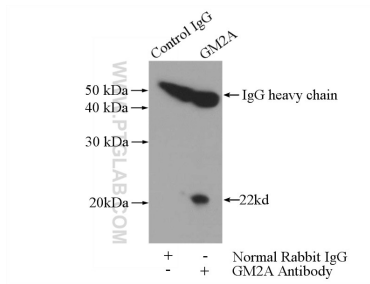
rat kidney tissue were subjected to SDS PAGE followed by western blot with 10864-2-AP (GM2A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



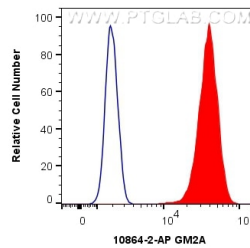
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10864-2-AP (GM2A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human GM2A (10864-2-AP) and CoraLite<sup>®</sup>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 (PF00011-C).