## For Research Use Only

# GPSM1 Polyclonal antibody

Catalog Number: 11483-1-AP

Featured Product

**3 Publications** 



**Basic Information** 

Catalog Number: GenBank Accession Number: 11483-1-AP BC017353

Size: GeneID (NCBI): 450 µg/ml 26086

Source: UNIPROT ID: Rabbit Q86YR5

Isotype: Full Name:

IgG G-protein signaling modulator 1
Immunogen Catalog Number: (AGS3-like, C. elegans)

AG2018 Calculated MW:

652 aa, 72 kDa Observed MW: 72 kDa Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:1000

IF 1:10-1:100

IHC 1:50-1:500

**Applications** 

Tested Applications: IF/ICC, IHC, WB, ELISA Cited Applications: WB, IF, IHC Species Specificity: human, mouse, rat

Cited Species: rat, 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: HeLa cells, human brain tissue, mouse brain

tissue, mouse testis tissue

IHC: human oesophagus cancer tissue,

IF: HepG2 cells,

# **Background Information**

GPSM1, also named as AGS3, is a receptor-independent G protein activator that has been implicated in multiple biological events such as brain development, neuroplasticity and addiction, cardiac function, Golgi structure/function, macroautophagy and metabolism. It contains seven tetratricopeptide repeats in its N-terminal half and four G-protein regulatory (GPR) motifs in its C-terminal half. It has been shown that AGS3 could regulate the orientation of the mitotic spindle, CAMP production, membrane protein transport, and asymmetric cell division by binding preferentially to inactive Gai/o subunits complexed with guanine dinucleotide phosphate (GDP) at multiple G-protein regulatory or Goloco motif repeats. It also plays an important anti-apoptotic role through enhancing the phosphorylation of cyclic AMP response element-binding protein (p-CREB).

### **Notable Publications**

Author	Pubmed ID	Journal	Application
Jing Yan	36434066	Nat Commun	WB,IHC,IF
Xuzi Cai	33220708	J Ovarian Res	WB,IHC
Mengyang Tang	37979657	Mol Metab	WB,IF

# Storage

Storage

Store at -20°C. Stable for one year after shipment.

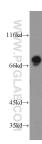
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

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.

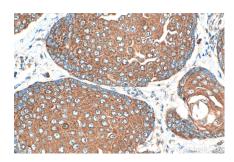
# **Selected Validation Data**



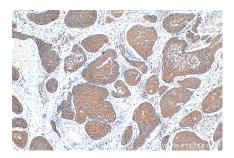
HeLa cells were subjected to SDS PAGE followed by western blot with 11483-1-AP (AGS3 antibody) at dilution of 1:600 incubated at room temperature for 15 hours.



Immunofluorescent analysis of HepG2 cells, using GPSM1 antibody 11483-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffinembedded human oesophagus cancer tissue slide using 11483-1-AP (GPSM1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human oesophagus cancer tissue slide using 11483-1-AP (GPSM1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).