

For Research Use Only

# GPSM1 Monoclonal antibody

Catalog Number: 68233-1-Ig



## Basic Information

<b>Catalog Number:</b> 68233-1-Ig	<b>GenBank Accession Number:</b> BC017353	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 26086	<b>CloneNo.:</b> 3A7A2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q86YR5	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> G-protein signaling modulator 1 (AGS3-like, C. elegans)	
<b>Immunogen Catalog Number:</b> AG18773	<b>Calculated MW:</b> 652 aa, 72 kDa	
	<b>Observed MW:</b> 75 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, mouse, rat	<b>WB :</b> LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells <b>IF/ICC :</b> PC-12 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).

## Storage

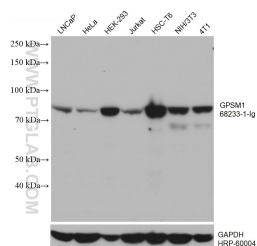
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

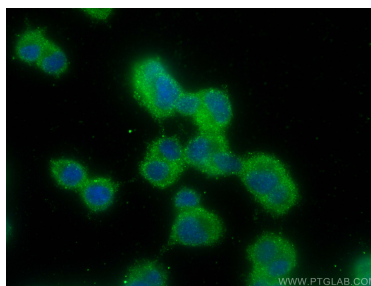
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68233-1-Ig (GPSM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using GPSM1 antibody (68233-1-Ig, Clone: 3A7A2 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).