

# GPSM2 Polyclonal antibody

Catalog Number: 26798-1-AP

## Basic Information

|                                                                                                                          |                                                                              |                                                              |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Catalog Number:</b><br>26798-1-AP                                                                                     | <b>GenBank Accession Number:</b><br>BC027732                                 | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul , Concentration: 260 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>29899                                               | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000            |
| <b>Source:</b><br>Rabbit                                                                                                 | <b>UNIPROT ID:</b><br>P81274                                                 | <b>IHC 1:50-1:500</b>                                        |
| <b>Isotype:</b><br>IgG                                                                                                   | <b>Full Name:</b><br>G-protein signaling modulator 2 (AGS3-like, C. elegans) | <b>IF/ICC 1:50-1:500</b>                                     |
| <b>Immunogen Catalog Number:</b><br>AG25195                                                                              | <b>Calculated MW:</b><br>75 kDa                                              |                                                              |
|                                                                                                                          | <b>Observed MW:</b><br>70-77 kDa                                             |                                                              |

## Applications

|                                                                                                                                                      |                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IHC, IF/ICC, ELISA                                                                                                | <b>Positive Controls:</b>                                                                     |
| <b>Species Specificity:</b><br>human, mouse, rat                                                                                                     | <b>WB :</b> HeLa cells, mouse heart tissue, HEK-293T cells, mouse liver tissue, HEK-293 cells |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> | <b>IHC :</b> human placenta tissue, human liver tissue                                        |
|                                                                                                                                                      | <b>IF/ICC :</b> MCF-7 cells,                                                                  |

## Background Information

GPSM2 belongs to a family of proteins that modulate activation of G proteins. GPSM2 assists in the exchange of guanine nucleotides, and allows extracellular signals to be transmitted to cells via cell surface, and ultimately plays a key role in the activation of G-proteins. Therefore, GPSM2 is a critical factor for the stability of cell division. Some recent studies have shown that GPSM2 messenger RNA (mRNA) is overexpressed and plays a positive role in the development of certain tumors, such as liver cancer, pancreatic cancer, breast cancer. It also plays a role in neuroblast division and in the development of normal hearing. Mutations in GPSM2 are associated with autosomal recessive nonsyndromic deafness (DFNB82), which is a form of non-syndromic deafness characterized by prelingual, bilateral, severe, sensorineural hearing loss.

## Storage

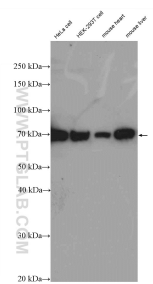
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

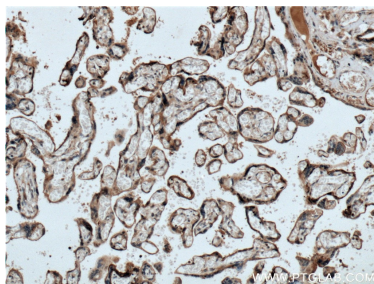
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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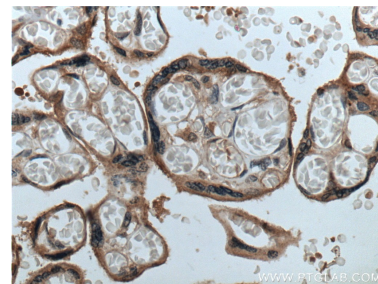
## Selected Validation Data



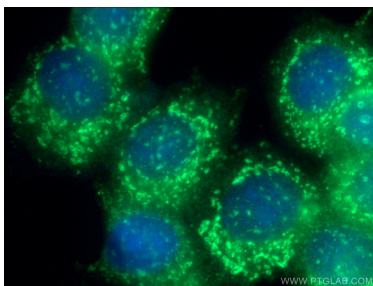
Various lysates were subjected to SDS PAGE followed by western blot with 26798-1-AP (GPSM2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 26798-1-AP (GPSM2 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 26798-1-AP (GPSM2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 26798-1-AP (GPSM2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).