

## AGS3 Polyclonal Antibody

Catalog number: 11483-1-AP

Size: 39 µg/150 µl

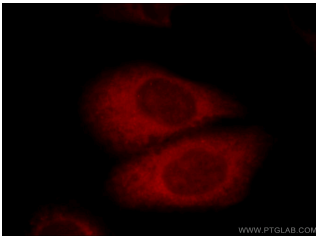
Source: Rabbit

Isotype: IgG

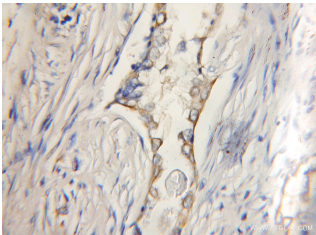
Synonyms:

GPSM1; AGS3, DKFZp727I051,

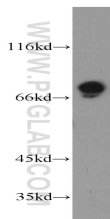
GPSM1



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



Immunohistochemical of paraffin-embedded human lung cancer using 11483-1-AP(GPSM1 antibody) at dilution of 1:50 (under 10x lens)



HeLa cells were subjected to SDS PAGE followed by western blot with 11483-1-AP(GPSM1 antibody) at dilution of 1:600

### Background

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).

### Applications

Tested applications:	ELISA, IHC, IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated AGS3 MW:	652aa, 72 kDa
Observed AGS3 MW:	72 kDa
Positive WB detected in	HeLa cells, human brain tissue, mouse brain tissue, mouse testis tissue
Positive IHC detected in	Human lung cancer tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag2018
GenBank accession number:	BC017353
Gene ID (NCBI):	26086
Full name:	G-protein signaling modulator 1 (AGS3-like, C. elegans)

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.