

CoraLite® Plus 488-conjugated GPSM1 Monoclonal antibody

Catalog Number: **CL488-68233**

Basic Information

Catalog Number: CL488-68233	GenBank Accession Number: BC017353	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 26086	CloneNo.: 3A7A2
Source: Mouse	UNIPROT ID: Q86YR5	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: G-protein signaling modulator 1 (AGS3-like, C. elegans)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG18773	Calculated MW: 652 aa, 72 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : A431 cells,
Species Specificity: Human, mouse	

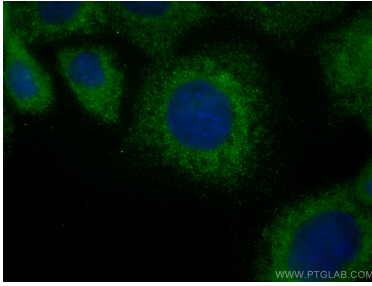
Background Information

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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using CoraLite® Plus 488 GPSP1 antibody (CL488-68233, Clone: 3A7A2) at dilution of 1:200.