

**GPSM1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12738c****Specification**

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**GPSM1 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [Q86YR5](#)

**GPSM1 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 26086

**Other Names**

G-protein-signaling modulator 1, Activator of G-protein signaling 3, GPSM1, AGS3

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GPSM1 Antibody (Center) Blocking peptide - Protein Information**

**Name** GPSM1

**Synonyms** AGS3

**Function**

Guanine nucleotide dissociation inhibitor (GDI) which functions as a receptor-independent activator of heterotrimeric G- protein signaling. Keeps G(i/o) alpha subunit in its GDP-bound form thus uncoupling heterotrimeric G-proteins signaling from G protein- coupled receptors. Controls spindle orientation and asymmetric cell fate of cerebral cortical progenitors. May also be involved in macroautophagy in intestinal cells. May play a role in drug addiction.

**Cellular Location**

Cytoplasm, cytosol. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side

**Tissue Location**

Expressed in intestinal cells.

**GPSM1 Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**GPSM1 Antibody (Center) Blocking peptide - Images****GPSM1 Antibody (Center) Blocking peptide - Background**

G proteins propagate intracellular signals initiated by Gprotein-coupled receptors. GPSM1, a receptor-independent activator of G protein signaling, is one of several factors that influence the basal activity of G protein signaling systems (Pizzinat et al., 2001 [PubMed 11278352]).

**GPSM1 Antibody (Center) Blocking peptide - References**

Oner, S.S., et al. J. Biol. Chem. 285(44):33949-33958(2010) Davila, S., et al. Genes Immun. 11(3):232-238(2010) Vural, A., et al. Mol. Cell. Biol. 30(6):1528-1540(2010) Groves, B., et al. PLoS ONE 5 (1), E8877 (2010) :An, N., et al. J. Biol. Chem. 283(36):24718-24728(2008)