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GPSM1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12738c

Specification

GPSM1 Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q86YR5
Other Accession	NP_001139110.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**74510**
Antigen Region	**439-468**

GPSM1 Antibody (Center) - Additional Information

Gene ID 26086

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

Target/Specificity
This GPSM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 439-468 amino acids from the Central region of human GPSM1.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GPSM1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GPSM1 Antibody (Center) - 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

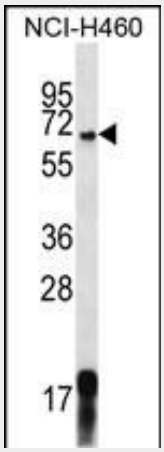
Tissue Location
Expressed in intestinal cells.

GPSM1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPSM1 Antibody (Center) - Images



GPSM1 Antibody (Center) (Cat. #AP12738c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the GPSM1 antibody detected the GPSM1 protein (arrow).

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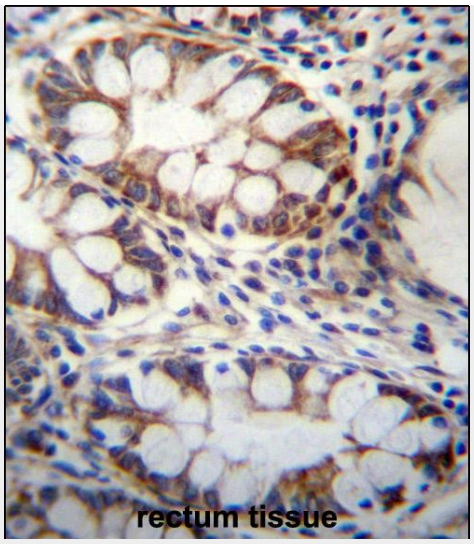

GPSM1 Antibody (Center) (Cat. #AP12738c)immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GPSM1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

GPSM1 Antibody (Center) - Background

G proteins propagate intracellular signals initiated by G protein-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) - 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)