

**GPSM2 Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21850a**

**Specification**

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**GPSM2 Antibody (N-Term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P81274</a>
Other Accession	<a href="#">Q8VDU0</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	76662

**GPSM2 Antibody (N-Term) - Additional Information**

**Gene ID** 29899

**Other Names**

G-protein-signaling modulator 2, Mosaic protein LGN, GPSM2, LGN

**Target/Specificity**

This GPSM2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 113-143 amino acids from human GPSM2.

**Dilution**

WB~~1:2000

**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**

GPSM2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPSM2 Antibody (N-Term) - Protein Information**

**Name** GPSM2

**Synonyms** LGN

**Function** Plays an important role in mitotic spindle pole organization via its interaction with NUMA1 (PubMed:[11781568](#), PubMed:[15632202](#), PubMed:[21816348](#)). Required for cortical dynein-dynactin complex recruitment during metaphase (PubMed:[22327364](#)). Plays a role in metaphase spindle orientation (PubMed:[22327364](#)). Also plays an important role in asymmetric cell divisions (PubMed:[21816348](#)). Has guanine nucleotide dissociation inhibitor (GDI) activity towards G(i) alpha proteins, such as GNAI1 and GNAI3, and thereby regulates their activity (By similarity).

#### Cellular Location

Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytoskeleton, spindle pole. Lateral cell membrane. Note=Localizes in the cytoplasm during interphase and at cell cortex during metaphase (PubMed:[11781568](#), PubMed:[15632202](#), PubMed:[22074847](#)). Colocalizes with NUMA1 to mitotic spindle poles (PubMed:[11781568](#), PubMed:[21816348](#)). Localized at the central and lateral cell cortex regions in a RanGTP-dependent manner (PubMed:[22327364](#)). In horizontally retinal progenitor dividing cells, localized to the lateral cortical region. In vertically retinal progenitor dividing cells, localized at the polar cortical region (By similarity).

{ECO:0000250|UniProtKB:Q8VDU0, ECO:0000269|PubMed:[11781568](#), ECO:0000269|PubMed:[15632202](#), ECO:0000269|PubMed:[21816348](#), ECO:0000269|PubMed:[22074847](#), ECO:0000269|PubMed:[22327364](#)}

#### Tissue Location

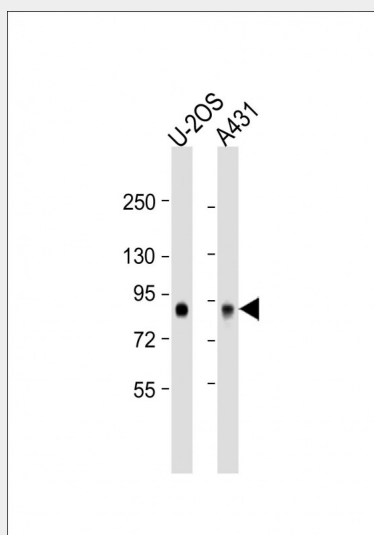
Ubiquitously expressed.

### GPSM2 Antibody (N-Term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### GPSM2 Antibody (N-Term) - Images



All lanes : Anti-GPSM2 Antibody (N-Term) at 1:2000 dilution Lane 1: U-2OS whole cell lysate Lane 2: A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **GPSM2 Antibody (N-Term) - Background**

Plays an important role in spindle pole orientation. Interacts and contributes to the functional activity of G(i) alpha proteins. Acts to stabilize the apical complex during neuroblast divisions.

#### **GPSM2 Antibody (N-Term) - References**

Mochizuki N.,et al.Gene 181:39-43(1996).  
Katagiri T.,et al.Submitted (JUL-2008) to the EMBL/GenBank/DDBJ databases.  
Gregory S.G.,et al.Nature 441:315-321(2006).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Puhl H.L. III,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.