

# GPSM2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21850a

## Product Information

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Application	WB, E
Primary Accession	<a href="#">P81274</a>
Other Accession	<a href="#">Q8VDU0</a>
Reactivity	Human, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54066
Calculated MW	76662

## Additional Information

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

## Protein Information

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Name	GPSM2
Synonyms	LGN
Function	Plays an important role in mitotic spindle pole organization via its interaction with NUMA1 (PubMed: <a href="#">11781568</a> , PubMed: <a href="#">15632202</a> ,

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.

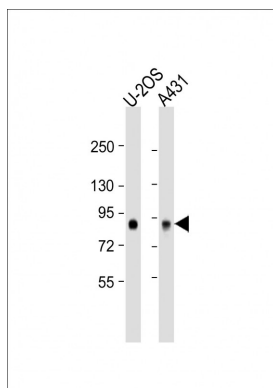
## Background

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.

## 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.

## 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.