

GPSM2 Blocking Peptide (N-Term)

Synthetic peptide

Catalog # BP21850a

Specification

GPSM2 Blocking Peptide (N-Term) - Product Information

Primary Accession

[P81274](#)

Other Accession

[Q8VDU0](#)**GPSM2 Blocking Peptide (N-Term) - Additional Information****Gene ID** 29899**Other Names**

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

Target/Specificity

The synthetic peptide sequence is selected from aa 133-143 of HUMAN GPSM2

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.

GPSM2 Blocking Peptide (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 Blocking Peptide (N-Term) - Protocols

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

- [Blocking Peptides](#)

GPSM2 Blocking Peptide (N-Term) - Images**GPSM2 Blocking Peptide (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 Blocking Peptide (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.