GPSM2 Monoclonal Antibody

Catalog No	BYmab-05608
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	GPSM2 LGN
Protein Name	G-protein-signaling modulator 2 (Mosaic protein LGN)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	GPSM2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	75kD
Cell Pathway	Cytoplasm . Cytoplasm, cell cortex . Cytoplasm, cytoskeleton, spindle pole . Lateral cell membrane . 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). .
Tissue Specificity	Ubiquitously expressed.
Function	function: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.,miscellaneous:Dysfunction of LGN is associated with the phenotype of multiple micronuclei due to chromosomal mis-segregation and defect in cell division through mis-localization of mitotic

	splindle regulator protein NuMA.,similarity:Belongs to the GPSM family.,similarity:Contains 4 GoLoco domains.,similarity:Contains 8 TPR repeats.,subcellular location:Localizes in the cytoplasm in the interphase and at cell periphery in the metaphase.,subunit:Interacts with LLGL2. Interacts with INSC/inscuteable and probably with F2RL2.,tissue specificity:Ubiquitously expressed.,
Background	The protein encoded by this gene belongs to a family of proteins that modulate activation of G proteins, which transduce extracellular signals received by cell surface receptors into integrated cellular responses. The N-terminal half of this protein contains 10 copies of leu-gly-asn (LGN) repeat, and the C-terminal half contains 4 GoLoco motifs, which are involved in guanine nucleotide exchange. This protein may play a role in neuroblast division and in the development of normal hearing. Mutations in this gene are associated with autosomal recessive nonsyndromic deafness (DFNB82). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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