PICAL Monoclonal Antibody

Catalog No	YP-mAb-05922
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	PICALM CALM
Protein Name	Phosphatidylinositol-binding clathrin assembly protein (Clathrin assembly lymphoid myeloid leukemia protein)
Immunogen	Synthesized peptide derived from human protein . at AA range: 290-370
Specificity	PICAL 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 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	71kD
Cell Pathway	Cell membrane . Membrane, clathrin-coated pit . Golgi apparatus . Cytoplasmic vesicle, clathrin-coated vesicle . Nucleus . Colocalized with clathrin in the Golgi area (PubMed:10436022). Interaction with PIMREG may target PICALM to the nucleus in some cells (PubMed:16491119). .
Tissue Specificity	Expressed in all tissues examined.
Function	disease:A chromosomal aberration involving PICALM is found in diffuse histiocytic lymphomas. Translocation t(10;11)(p13;q14) with MLLT10.,function:Assembly protein recruiting clathrin and adaptor protein complex 2 (AP2) to cell membranes at sites of coated-pit formation and clathrin-vesicle assembly. May be required to determine the amount of membrane to be recycled, possibly by regulating the size of the clathrin cage. Involved in AP2-dependent clathrin-mediated endocytosis at the neuromuscular junction.,similarity:Contains 1 ENTH (epsin N-terminal homology) domain.,subcellular location:Colocalized with clathrin in the Golgi area.,subunit:Binds clathrin; involves primarily the C-terminal sequences, but the full-length protein is required for full binding capacity. Binds phosphatidylinositol-4,5- bisphosphate.,tissue specificity:Expressed in all tissues examined.,

Background	This gene encodes a clathrin assembly protein, which recruits clathrin and adaptor protein complex 2 (AP2) to cell membranes at sites of coated-pit formation and clathrin-vesicle assembly. The protein may be required to determine the amount of membrane to be recycled, possibly by regulating the size of the clathrin cage. The protein is involved in AP2-dependent clathrin-mediated endocytosis at the neuromuscular junction. A chromosomal translocation t(10;11)(p13;q14) leading to the fusion of this gene and the MLLT10 gene is found in acute lymphoblastic leukemia, acute myeloid leukemia and malignant lymphomas. The polymorphisms of this gene are associated with the risk of Alzheimer disease. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011],
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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