



# PACS1 Monoclonal Antibody

Catalog No	BYmab-05925
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	PACS1 KIAA1175
Protein Name	Phosphofurin acidic cluster sorting protein 1 (PACS-1)
Immunogen	Synthesized peptide derived from human protein . at AA range: 400-480
Specificity	PACS1 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	105kD
Cell Pathway	Golgi apparatus, trans-Golgi network . Localizes in the perinuclear region, probably the TGN. .
Tissue Specificity	Brain,Embryo,Epithelium,Fetal brain,Kidney,Testis,Uterus,
Function	function:Coat protein that is involved in the localization of trans-Golgi network (TGN) membrane proteins that contain acidic cluster sorting motifs. Controls the endosome-to-Golgi trafficking of furin and mannose-6-phosphate receptor by connecting the acidic-cluster-containing cytoplasmic domain of these molecules with the adapter-protein complex-1 (AP-1) of endosomal clathrin-coated membrane pits. Involved in HIV-1 nef-mediated removal of MHC-I from the cell surface to the TGN.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the PACS family.,subcellular location:Localizes in the perinuclear region, probably the TGN.,subunit:Interacts with HIV-1 Nef, AP-1 and AP-3 but not with AP-2. Forms a ternary complex with furin and AP-1. Combines with Nef to usurp the ARF6 endocytic pathway by a PI3K-dependent process to remove cell surface MHC-I molecules.,

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**Background**

This gene encodes a protein with a putative role in the localization of trans-Golgi network (TGN) membrane proteins. Mouse and rat homologs have been identified and studies of the homologous rat protein indicate a role in directing TGN localization of furin by binding to the protease's phosphorylated cytosolic domain. In addition, the human protein plays a role in HIV-1 Nef-mediated downregulation of cell surface MHC-I molecules to the TGN, thereby enabling HIV-1 to escape immune surveillance. [provided by RefSeq, Jul 2008],

**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.

## Products Images