



Rab 1B Monoclonal Antibody

Catalog No	YP-mAb-16189
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	RAB1B
Immunogen	Synthesized peptide derived from Rab 1B . at AA range: 50-130
Specificity	Rab 1B Monoclonal Antibody detects endogenous levels of Rab 1B protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA 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	EC:3.6.5.2;Ras related protein Rab 1B;Ras-related protein Rab-1B;Rab 1B; RAB1B
Observed Band	22kD
Calculated Molecular Weight	22kD
Cell Pathway	Cytoplasm . Membrane ; Lipid-anchor ; Cytoplasmic side . Preautophagosomal structure membrane ; Lipid-anchor ; Cytoplasmic side . Cytoplasm, perinuclear region . Targeted by REP1 to membranes of specific subcellular compartments including endoplasmic reticulum, Golgi apparatus, and intermediate vesicles between these two compartments (PubMed:11389151). In the GDP-form, colocalizes with GDI in the cytoplasm (PubMed:11389151). Co-localizes with MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment and to the peri-Golgi region (By similarity). .
Tissue Specificity	B-cell lymphoma,Brain,Muscle,Pancreas,
Function	function:Protein transport. Regulates vesicular transport between the endoplasmic reticulum and successive Golgi compartments.,miscellaneous:Rab-1B binds GTP and GDP and possesses intrinsic GTPase activity., PTM:Prenylated; by GGTase II, only after interaction of the substrate with Rab escort protein 1 (REP1),similarity:Belongs to the small GTPase superfamily.



Rab family.,subcellular location:Targeted by REP1 to membranes of specific subcellular compartments including endoplasmic reticulum, Golgi apparatus, and intermediate vesicles between these two compartments. In the GDP-form, colocalizes with GDI in the cytoplasm.,subunit:Interacts with MICAL1, MICAL2 and MICAL3. Interacts with GDI1; the interaction requires the GDP-bound state. Interacts with CHM/REP1; the interaction requires the GDP-bound form and is necessary for prenylation by GGTase II.,

Background

Members of the RAB protein family, such as RAB1B, are low molecular mass monomeric GTPases localized on the cytoplasmic surfaces of distinct membrane-bound organelles. RAB1B functions in the early secretory pathway and is essential for vesicle transport between the endoplasmic reticulum (ER) and Golgi (Chen et al., 1997 [PubMed 9030196]; Alvarez et al., 2003 [PubMed 12802079]).[supplied by OMIM, Jan 2009],

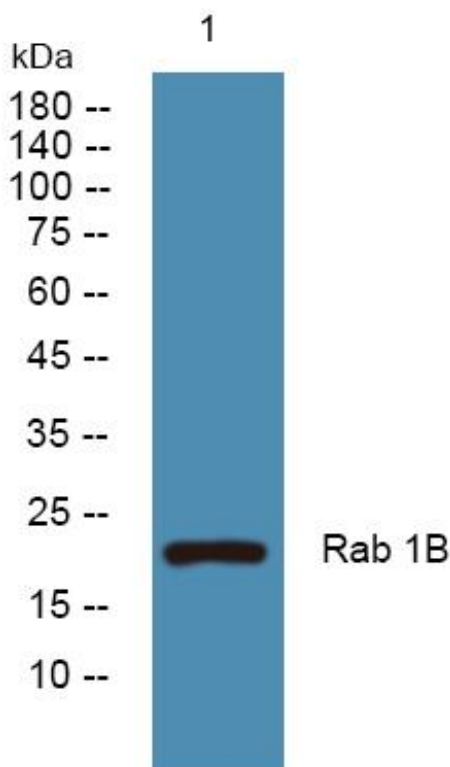
matters needing attention

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



Western Blot analysis of various cells using Rab 1B Monoclonal Antibody