

Mouse Anti-RAB1B antibody

SLM-51615M

Product Name	RAB1B
Chinese Name	RAB1B 单克隆抗体
Alias	RAB1B member RAS oncogene family; RAB1B_HUMAN; Ras related protein Rab1B; Ras-related protein Rab-1B; Small GTP binding protein.
Research Area	Signal transduction G protein signal
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	C7D12
React Species	Human, Mouse, Rat, WB=1:500-2000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	22kDa
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human RAB1B between 1-201 amino acids.
Lsotype	IgG1,k
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	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]

Function:

Protein transport. Regulates vesicular transport between the endoplasmic reticulum and successive Golgi compartments.

Subcellular Location:

Membrane. Cytoplasm. 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.

Post-translational modifications:

Prenylated; by GGTase II, only after interaction of the substrate with Rab escort protein 1 (REP1). AMPylation at Tyr-77 occurs in the switch 2 region and leads to moderate inactivation of the GTPase activity. It appears to prolong the lifetime of the GTP state of RAB1B by restricting access of GTPase effectors to switch 2 and blocking effector-stimulated GTP hydrolysis, thereby rendering RAB1B constitutively active.

Similarity:

Belongs to the small GTPase superfamily. Rab family.

SWISS:

Q9H0U4

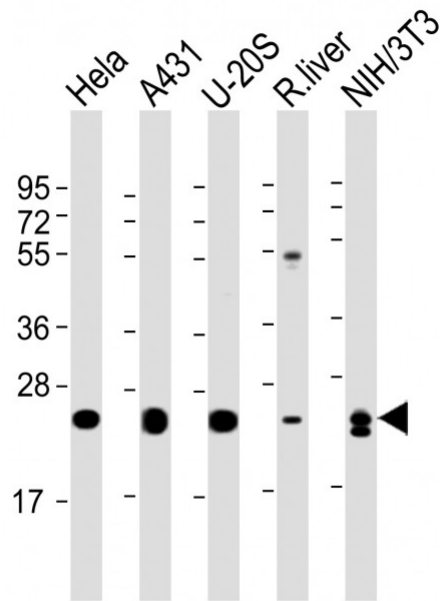
Gene ID:

81876

Database links:

[Entrez Gene: 81876](#) Human

[SwissProt: Q9H0U4](#) Human



Product Picture

Sample:

Lane 1: HeLa cell lysates

Lane 2: A431 cell lysates

Lane 3: U-20S cell lysates

Lane 4: Rat liver tissue lysates

Lane 5: NIH/3T3 cell lysates

Primary: Anti-RAB1B (SLM-51615M) at 1/4000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 22 kD



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Observed band size: 25 kD