10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RAB3B Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8487b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P20337
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Clone Names	1543CT354.60.92
Calculated MW	24758

Additional Information

Gene ID	5865
Other Names	Ras-related protein Rab-3B, RAB3B
Target/Specificity	This RAB3B antibody is generated from a mouse immunized with a recombinant protein of human RAB3B.
Dilution	WB~~1:2000 IHC-P~~1:100~500 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RAB3B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB3B (HGNC:9778)
Function	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:35871249). Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle

formation, movement, tethering and fusion (PubMed:35871249).

Cellular Location

Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus {ECO:0000250|UniProtKB:Q9CZT8}. Note=Colocalizes with DRC4 in the Golgi apparatus. {ECO:0000250|UniProtKB:Q9CZT8}

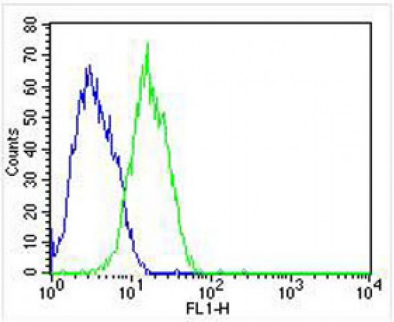
Background

Protein transport. Probably involved in vesicular traffic (By similarity).

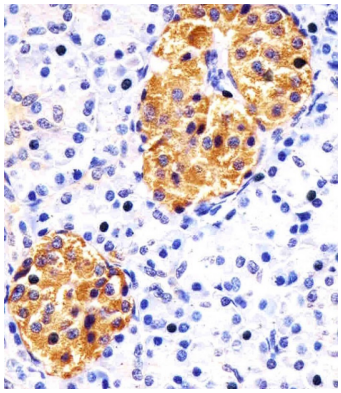
References

Zahraoui A.,et al.J. Biol. Chem. 264:12394-12401(1989).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).
Rigbolt K.T.,et al.Sci. Signal. 4:RS3-RS3(2011).

Images

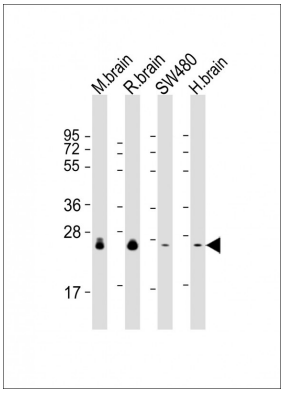


Overlay histogram showing HepG2 cells stained with AM8487b (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8487b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(NA168821) at 1/400 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



AM8487b staining RAB3B in human pancreas sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

All lanes : Anti-RAB3B Antibody at 1:2000 dilution Lane 1: mouse brain lysate Lane 2: rat brain lysate Lane 3: SW480 whole cell lysate Lane 4: human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 25 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.