

Mouse RAB8A Monoclonal Antibody | anti-RAB8A antibody

RAB8A Antibody

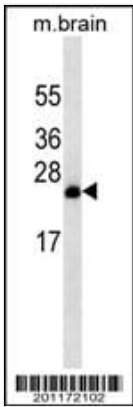
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290643	Mouse	Human, Mouse; Predicted Reactivity: Monkey	ELISA, Western Blot

PRODUCT SYNONYMS

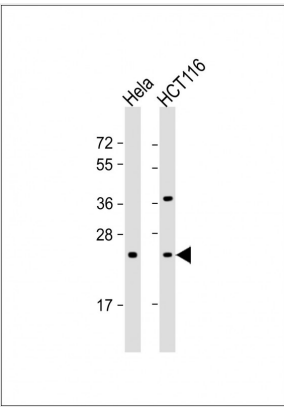
RAB8A; Monoclonal Antibody; RAB8A Antibody; Ras-related protein Rab-8A; Oncogene c-mel; MEL; RAB8; anti-RAB8A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse; Predicted Reactivity: Monkey
Clonality	Monoclonal
Isotype	IgG1,k
Specificity	This RAB8A monoclonal antibody is generated from mouse immunized with RAB8A recombinant protein.
Form/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.
Sequence Length	207
Applicable Applications for anti-RAB8A antibody	ELISA, WB (Western Blot)
Subtitle	Mouse Monoclonal Antibody (Mab)
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus Recycling endosome membrane. Cell projection, cilium. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle, phagosome membrane; Lipid-anchor; Cytoplasmic side. Note=Colocalizes with OPTN at the Golgi complex and in vesicular structures close to the plasma membrane. In the GDP- bound form, present in the perinuclear region. Shows a polarized distribution to distal regions of cell protrusions in the GTP- bound form. Colocalizes with PARD3, PRKCI, EXOC5, OCLN, PODXL and RAB11A in apical membrane initiation sites (AMIS) during the generation of apical surface and lumenogenesis. Localizes to tubular recycling endosome. Recruited to phagosomes containing S.aureus or M.tuberculosis.
Antigen Type	Recombinant Protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
RAB8A Antibody western blot analysis in mouse brain tissue lysates (35µg/lane). This demonstrates the RAB8A antibody detected the RAB8A protein (arrow).



WB (Western Blot)
All lanes : Anti-RAB8A Antibody at 1:1000 dilution
Lane 1: HeLa whole cell lysate
Lane 2: HCT116 whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 24 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-RAB8A antibody	Description: The protein encoded by this gene is a member of the RAS superfamily which are small GTP/GDP-binding proteins with an average size of 200 amino acids. The RAS-related proteins of the RAB/YPT family may play a role in the transport of proteins from the endoplasmic reticulum to the Golgi and the plasma membrane. This protein shares 97%, 96%, and 51% similarity with the dog RAB8, mouse MEL, and mouse YPT1 proteins, respectively and contains the 4 GTP/GDP-binding sites that are present in all the RAS proteins. The putative effector-binding site of this protein is similar to that of the RAB/YPT proteins. However, this protein contains a C-terminal CAAX motif that is characteristic of many RAS superfamily members but which is not found in YPT1 and the majority of RAB proteins. Although this gene was isolated as a transforming gene from a melanoma cell line, no linkage between MEL and malignant melanoma has been demonstrable. This oncogene is located 800 kb distal to MYO9B on chromosome 19p13. 1. Background: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. 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. That Rab is involved in polarized vesicular trafficking and neurotransmitter release. Together with RAB11A, RAB3IP, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B and RAB11A participates in epithelial cell polarization. Plays an important role in ciliogenesis. Together with MICALL2, may also regulate adherens junction assembly. May play a role in insulin-induced transport to the plasma membrane of the glucose transporter GLUT4 and therefore play a role in glucose homeostasis.
Product Categories/Family for anti-RAB8A antibody	Primary Antibodies; Signal Transduction
References	Dong, C., et al. J. Biol. Chem. 285 (26):20369-20380 (2010). Knodler, A., et al. Proc. Natl. Acad. Sci. U.S.A. 107 (14):6346-6351 (2010). Davila, S., et al. Genes Immun. 11 (3):232-238 (2010). Linder, M.D., et al. Arterioscler. Thromb. Vasc. Biol. 29 (6):883-888 (2009). Xu, X.F., et al. Intervirology 52 (5):258-265 (2009).

NCBI AND UNIPROT INFORMATION

NCBI GI #	16933567
NCBI GeneID	4218
NCBI Accession #	NP_005361.2
NCBI GenBank Nucleotide #	NM_005370.4
UniProt Accession #	P61006; P24407; Q6FHV5; B4DEK7

Molecular Weight	23668 Da
NCBI Official Full Name	ras-related protein Rab-8A
NCBI Official Synonym Full Names	RAB8A, member RAS oncogene family
NCBI Official Symbol	RAB8A
NCBI Official Synonym Symbols	MEL; RAB8
NCBI Protein Information	ras-related protein Rab-8A
UniProt Protein Name	Ras-related protein Rab-8A
UniProt Gene Name	RAB8A
UniProt Synonym Gene Names	MEL; RAB8
UniProt Entry Name	RAB8A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rab8a-antibody-western-blot-elisa/290643>