

KD-Validated Anti-Rab9 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1007

Product Information

Application	WB, FC, ICC
Primary Accession	P51151
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB1940
Calculated MW	22838
Gene Name	RAB9A
Aliases	RAB9A; RAB9A, Member RAS Oncogene Family; RAB9; RAB9, Member RAS Oncogene Family; Ras-Related Protein Rab-9A
Immunogen	A synthesized peptide derived from human Rab9A

Additional Information

Gene ID	9367
Other Names	Ras-related protein Rab-9A, 3.6.5.2, RAB9A (HGNC:9792), RAB9

Protein Information

Name	RAB9A (HGNC:9792)
Synonyms	RAB9
Function	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 (By similarity). RAB9A is involved in the transport of proteins between the endosomes and the trans-Golgi network (TGN) (PubMed:34793709). Specifically uses NDE1/NDEL1 as an effector to interact with the dynein motor complex in order to control retrograde trafficking of RAB9-associated late endosomes to the TGN (PubMed:34793709). Involved in the recruitment of SGSM2 to melanosomes and is required for the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Endoplasmic reticulum membrane. Golgi apparatus membrane. Late endosome. Cytoplasmic vesicle, phagosome membrane; Lipid-anchor; Cytoplasmic side. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle membrane. Melanosome

{ECO:0000250|UniProtKB:Q9R0M6}. Note=Colocalizes with OSBPL1A at the late endosome (PubMed:16176980). Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211). Mainly localizes to late endosomes and partially localizes to Golgi (PubMed:34793709) Colocalizes with NDE1 to membrane vesicles (PubMed:34793709)

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