

KD-Validated Anti-RAB27 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI1995

Product Information

Application	WB
Primary Accession	P51159
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Names	24GB7165
Calculated MW	24868
Gene Name	RAB27A
Aliases	RAB27A; RAB27A, Member RAS Oncogene Family; RAB27; HsT18676; RAM; GS2; Ras-Related Protein Rab-27A; GTP-Binding Protein Ram; Rab-27; Mutant Ras-Related Protein Rab-27A; EC 3.6.5.2
Immunogen	Recombinant protein of human RAB27

Additional Information

Gene ID	5873
Other Names	Ras-related protein Rab-27A, Rab-27, 3.6.5.2, GTP-binding protein Ram, RAB27A, RAB27

Protein Information

Name	RAB27A (HGNC:9766)
Synonyms	RAB27
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 (PubMed: 30771381). RAB27A regulates homeostasis of late endocytic pathway, including endosomal positioning, maturation and secretion (PubMed: 30771381). Plays a role in cytotoxic granule exocytosis in lymphocytes. Required for both granule maturation and granule docking and priming at the immunologic synapse (PubMed: 18812475).
Cellular Location	Membrane; Lipid-anchor. Melanosome. Late endosome. Lysosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545, PubMed:17081065). Localizes to endosomal exocytic vesicles (PubMed:17237785).

Tissue Location

Found in all the examined tissues except in brain. Low expression was found in thymus, kidney, muscle and placenta Detected in melanocytes, and in most tumor cell lines examined Expressed in cytotoxic T-lymphocytes (CTL) and mast cells

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