

KD-Validated Anti-RAB27 Mouse Monoclonal Antibody

Mouse monoclonal antibody Catalog # AGI1995

Specification

KD-Validated Anti-RAB27 Mouse Monoclonal Antibody - Product Information

Application WB Primary Accession P51159 Reactivity Human Clonality **Monoclonal**

Isotype Mouse IgG1 kappa

Calculated MW Predicted, 25 kDa, observed, 27 kDa KDa

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

KD-Validated Anti-RAB27 Mouse Monoclonal Antibody - Additional Information

Gene ID 5873

Other Names

Ras-related protein Rab-27A, Rab-27, 3.6.5.2, GTP-binding protein Ram, RAB27A, RAB27

KD-Validated Anti-RAB27 Mouse Monoclonal Antibody - Protein Information

Name RAB27A

Synonyms RAB27

Function

Small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate 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.

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



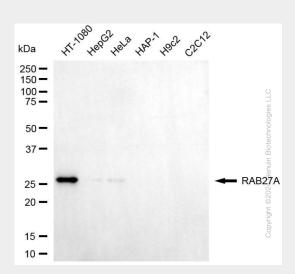
cytotoxic T-lymphocytes (CTL) and mast cells

KD-Validated Anti-RAB27 Mouse Monoclonal Antibody - Protocols

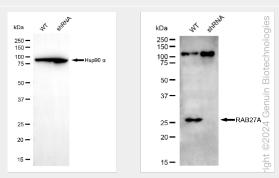
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

KD-Validated Anti-RAB27 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-RAB27A antibody (Cat#AGI1995). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-RAB27A antibody (Cat#AGI1995, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-RAB27A antibody (Cat#AGI1995). RAB27A expression in wild-type (WT) and RAB27A shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-RAB27A antibody (Cat#AGI1995, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.