



Datasheet for ABIN967619  
**anti-RAB27A antibody**



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### Overview

Quantity:	0.1 mg
Target:	RAB27A
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAB27A antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Brand:	BD Pharmingen™
Immunogen:	Human Rab27A
Clone:	20-RAB27
Isotype:	IgG1 kappa
Characteristics:	<ol style="list-style-type: none"><li>1. Please refer to us for technical protocols.</li><li>2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li></ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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Target: RAB27A

Alternative Name: RAB27 ([RAB27A Products](#))

Background: Members of the Rab family of GTPases are non-transforming, membrane-bound, geranylgeranylated members of the Ras superfamily that are involved in the fusion and trafficking of cellular vesicles. Rab27A is expressed in many human tissues and it regulates the secretion of several types of cellular vesicles, such as melanosomes, insulin granules of pancreatic beta cells, and lytic granules of cytotoxic T lymphocytes. Rab27A is able to regulate such diverse processes by interacting with organelle-specific effector proteins, including melanophilin, granophilin, and Munc13-4, respectively. Defects in Rab27A function are associated with the human diseases choroideremia and Griscelli syndrome 2 and the ashen mutant mouse. Rab27B is not so widely expressed, yet it is reported to have similar functional capacities as Rab27A.

Molecular Weight: 25 kDa

Pathways: [Peptide Hormone Metabolism](#)

## Application Details

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Comment: Related Products: ABIN967389, ABIN968587

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.5 mg/mL

Buffer: Aqueous buffered solution containing  $\leq 0.09$  % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store undiluted at 4°C.

## Publications

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Product cited in: Yoon, Kovalenko, Bogdanov, Wallach: "MLKL, the Protein that Mediates Necroptosis, Also

Regulates Endosomal Trafficking and Extracellular Vesicle Generation." in: **Immunity**, Vol. 47, Issue 1, pp. 51-65.e7, (2017) ([PubMed](#)).

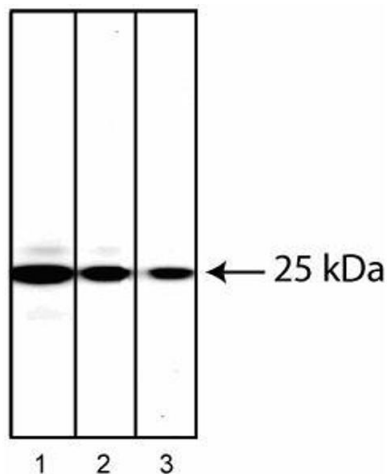
Hong: "Cytotoxic T lymphocyte exocytosis: bring on the SNAREs!" in: **Trends in cell biology**, Vol. 15, Issue 12, pp. 644-50, (2005) ([PubMed](#)).

Fukuda: "Versatile role of Rab27 in membrane trafficking: focus on the Rab27 effector families." in: **Journal of biochemistry**, Vol. 137, Issue 1, pp. 9-16, (2005) ([PubMed](#)).

Izumi, Gomi, Kasai, Mizutani, Torii: "The roles of Rab27 and its effectors in the regulated secretory pathways." in: **Cell structure and function**, Vol. 28, Issue 5, pp. 465-74, (2004) ([PubMed](#)).

## Images

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### Western Blotting

**Image 1.** Western blot analysis of Rab27 in human chronic myelogenous leukemia. Lysate from the K-562 cell line (ABIN968586) was probed with purified mouse anti-Rab27 monoclonal antibody at concentrations of 1.00, 0.50, and 0.25  $\mu\text{g/ml}$  (Lanes 1, 2, and 3, respectively). Rab27 is identified as a band of 25 kDa.