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Datasheet for ABIN968210 anti-RAB8A antibody (AA 84-205)

2 Images

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Overview

Quantity:	50 µg
Target:	RAB8A
Binding Specificity:	AA 84-205
Reactivity:	Human, Mouse, Rat, Dog, Blow Fly
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAB8A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human Rab8 aa. 84-205
Clone:	4-Rab8
Isotype:	lgG2b
Cross-Reactivity:	Dog (Canine), Mouse (Murine), Rat (Rattus), Fruit Fly (Drosophila melanogaster)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. 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.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Product Details

Purification:

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

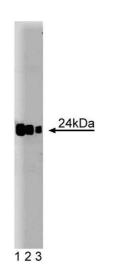
Target Details

Target:	RAB8A
Alternative Name:	Rab8 (RAB8A Products)
Background:	The members of the Ras superfamily of GTPases, which now includes more than 50 different
	proteins, shuttle between the GDP-bound inactive position and the GTP-bound active state. The
	GTPase activity of the Ras-like proteins is regulated by effectors that promote either the GDP-
	or the GTP-bound states. GTPases of the Ras superfamily have a role in controlling numerous
	events such as cell proliferation, nucleocytoplasmic transport, and vesicular traffic. The Rab
	superfamily of proteins includes more than 30 different members that are involved in the
	regulation of different steps of vesicular traffic. Subcellular localization and specific cellular
	function of each Rab appears to be encoded in the unique C-terminal part of the proteins,
	known as the hypervariable region. The 207 amino acid Rab8 protein is closely related to the
	yeast Sec4p and regulates vesicle transport from the Trans-golgi Network to the basolateral
	plasma membrane in epithelial cells. In addition, Rab8 interacts with the stress-activated kinase
	rab8p, a close homologue of the GC Kinase. This interaction was found to be dependent on
	GTP. This antibody is routinely tested by western blot analysis.
Molecular Weight:	24 kDa
Pathways:	M Phase, Regulation of long-term Neuronal Synaptic Plasticity, SARS-CoV-2 Protein
	Interactome
Application Details	
Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 μg/mL

Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.
Preservative:	Sodium azide

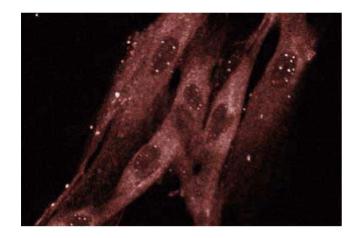
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Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Bahadoran, Aberdam, Mantoux, Buscà, Bille, Yalman, de Saint-Basile, Casaroli-Marano, Ortonne, Ballotti: "Rab27a: A key to melanosome transport in human melanocytes." in: The Journal of
	cell biology , Vol. 152, Issue 4, pp. 843-50, (2001) (PubMed).
	Hume, Collinson, Rapak, Gomes, Hopkins, Seabra: "Rab27a regulates the peripheral distribution
	of melanosomes in melanocytes." in: The Journal of cell biology , Vol. 152, Issue 4, pp. 795-808, (2001) (PubMed).
	Kessels, Engqvist-Goldstein, Drubin: "Association of mouse actin-binding protein 1
	(mAbp1/SH3P7), an Src kinase target, with dynamic regions of the cortical actin cytoskeleton in response to Rac1 activation." in: Molecular biology of the cell , Vol. 11, Issue 1, pp. 393-412, (2000) (PubMed).
	Chavrier, Vingron, Sander, Simons, Zerial: "Molecular cloning of YPT1/SEC4-related cDNAs from an epithelial cell line." in: Molecular and cellular biology , Vol. 10, Issue 12, pp. 6578-85, (1991) (PubMed).
	Nimmo, Sanders, Padua, Hughes, Williamson, Johnson: "The MEL gene: a new member of the RAB/YPT class of RAS-related genes." in: Oncogene , Vol. 6, Issue 8, pp. 1347-51, (1991) (PubMed).



Western Blotting

Image 1. Western blot analysis of Rab8 on a Jurkat cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- Rab8 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of WI-38 cells (human lung fibroblasts, ATCC CCL-75).

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