

Datasheet for ABIN4913382
anti-RAB13 antibody

2 Images



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Overview

Quantity:	100 µL
Target:	RAB13
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAB13 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This RAB13 antibody is generated from a mouse immunized with a recombinant protein between 1-203 amino acids from human RAB13.
Clone:	5C9
Isotype:	IgG1
Cross-Reactivity:	Human
Purification:	Purified by Protein G.

Target Details

Target:	RAB13
Alternative Name:	RAB13 (RAB13 Products)
Background:	Synonyms: GIG4, Ras-related protein Rab-13, Cell growth-inhibiting gene 4 protein, RAB13

Target Details

Background: 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. That Rab is involved in endocytic recycling and regulates the transport to the plasma membrane of transmembrane proteins like the tight junction protein OCLN/occludin. Thereby, it regulates the assembly and the activity of tight junctions. Moreover, it may also regulate tight junction assembly by activating the PKA signaling pathway and by reorganizing the actin cytoskeleton through the activation of the downstream effectors PRKACA and MICALL2 respectively. Through its role in tight junction assembly, may play a role in the establishment of Sertoli cell barrier. Plays also a role in angiogenesis through regulation of endothelial cells chemotaxis. Also involved in neurite outgrowth. Has also been proposed to play a role in post-Golgi membrane trafficking from the TGN to the recycling endosome. Finally, it has been involved in insulin-induced transport to the plasma membrane of the glucose transporter GLUT4 and therefore may play a role in glucose homeostasis.

Gene ID: 5872

UniProt: [P51153](#)

Pathways: [Cell-Cell Junction Organization](#)

Application Details

Application Notes: WB 1:300-5000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

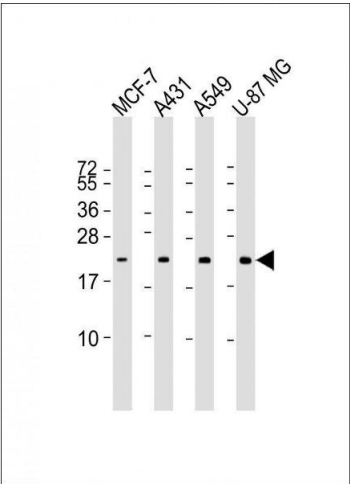
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Handling

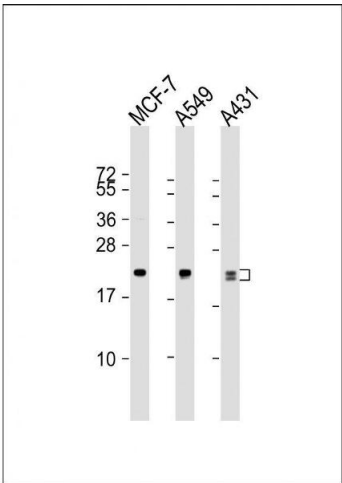
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Lane 1: MCF-7, Lane 2: A431, Lane 3: A549, Lane 4: U-87MG cell lysate at 20 µg per lane, probed with bsm-51357M RAB13 (3250CT845.37.29) Monoclonal Antibody at 1:1000 dilution and 4°C *overnight incubation, followed by secondary antibody incubation for 60min at room temperature.*



Western Blotting

Image 2. Lane 1: MCF-7 Cell lysates, Lane 2: A549 Cell lysates, Lane 3: A431 Cell lysates, probed with RAB13 (3250CT845.37.29) Monoclonal Antibody, unconjugated (bsm-51357M) at 1:1000 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.