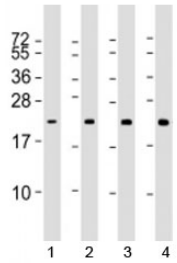
RAB13 Antibody [clone 1600CT845.37.29] (F53816)

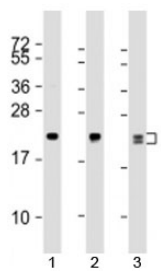
Catalog No.	Formulation	Size
F53816-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53816-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	1600CT845.37.29
Purity	Protein G affinity chromatography
UniProt	P51153
Applications	Western Blot : 1:500-1000
Limitations	This RAB13 antibody is available for research use only.



Western blot testing of human 1) MCF7, 2) A431, 3) A549 and 4) U87 MG cell lysate with RAB13 antibody at 1:1000. Predicted molecular weight: 23 kDa.



Western blot testing of human 1) MCF7, 2) A431 and 3) A549 cell lysate with RAB13 antibody at 1:1000. Predicted molecular weight: 23 kDa.

Description

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.

Application Notes

Titration of the RAB13 antibody may be required due to differences in protocols and substrate sensitivity.

Immunogen

A human recombinant protein corresponding to amino acids 1-203 was used as the immunogen for the RAB13 antibody.

Storage

Aliquot the RAB13 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.