SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-RAB13 antibody

Catalog Number: SL8736R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	RAB13
Immunogen:	KLH conjugated synthetic peptide derived from human RAB13: 51-150/203
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 1M PBS, pH 7.4 Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse, Rabbit, Zebrafish, Sheep)
Predicted MW.:	23kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	This gene is a member of the Rab family of small G proteins and plays a role in regulating membrane trafficking between trans-Golgi network (TGN) and recycling endosomes (RE). The encoded protein is involved in the assembly of tight junctions, which are components of the apical junctional complex (AJC) of epithelial cells. The AJC plays a role in forming a barrier between luminal contents and the underlying tissue. Additional functions associated with the protein include endocytic recycling of occludin, regulation of epithelial cell scattering, neuronal regeneration and regulation of neurite outgrowth. Alternately spliced transcript variants have been observed for this gene. A pseudogene associated with this gene is located on chromosome 12. [provided by RefSeq, Jan 2013]

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subunit: Interacts (GTP-bound form) with MICALL2; competes with RAB8A and is involved in tight junctions assembly. Interacts (GTP-bound form) with MICALL1. Interacts with PRKACA; downstream effector of RAB13 involved in tight junction assembly. Interacts with GRB2; may recruit RAB13 to the leading edge of migrating endothelial cells where it can activate RHOA. Interacts (isoprenylated form) with PDE6D; dissociates RAB13 from membranes. Interacts with CCDC64B/BICDR2. Interacts with LEPROT and LEPROTL1. **Subcellular Location:** Cell junction. tight junction. Cell membrane. Cytoplasmic vesicle membrane. Cytoplasmic tight junctions or associated with vesicles scattered throughout the cytoplasm in cells lacking tight junctions. **Tissue Specificity:** Detected in several types of epithelia, including intestine, kidney, liver and in endothelial cells. **Similarity:** Belongs to the small GTPase superfamily. Rab family. **Database links:** **Entrez Gene:** 514541 Cow **Entrez Gene:** 5872 Human **Entrez Gene:** 68328 Mouse **Entrez Gene:** 81756 Rat **Entrez Gene:** 373105 Zebrafish Omim: 602672 Human **SwissProt:** Q58DS5 Cow **SwissProt:** P51153 Human **SwissProt:** Q5U0A6 Human **SwissProt:** Q9DD03 Mouse **SwissProt:** P35286 Rat **SwissProt:** Q7T3A4 Zebrafish **Unigene:** 151536 Human **Unigene:** 29355 Mouse **Unigene:** 9819 Rat

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