SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Rab11 antibody

Catalog Number: SL6173R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Rab11
Immunogen:	KLH conjugated synthetic peptide derived from human Rab11: 45-145/216
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. 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 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:	Rat(predicted:Human,Mouse,Chicken,Pig,Cow,Horse,Sheep)
Predicted MW.:	24kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	Rab proteins are low-molecular-weight GTP-binding proteins that form the largest branch of the Ras superfamily of GTPases. Located on the cytoplasmic face of organelles and vesicles, rab proteins are involved in intracellular membrane fusion reactions. Three membrane proteins, synaptosomal associated protein of 25 kDa (SNAP-25), synaptobrevin, and syntaxin, form the core of a ubiquitous membrane fusion machine that interacts with the soluble proteins N-ethylmaleimide-sensitive factor (NSF) and a-SNAP. Rab proteins, in coordination with the core fusion machinery and Munc-18, help to mediate vesicle docking and fusion. There are over 40 Rab proteins in mammals. Rab11a and Rab11b are known markers for protein trafficking, sorting, and recycling in the endosomal pathway. The Rab11 proteins are enriched in recycling endosomes and the trans-Golgi network, where they regulate membrane recycling back to the plasma

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

	membrane. Rab11a is ubiquitously expressed, while Rab11b is expressed mainly in the heart and brain. **Function:** Regulates endocytic recycling. May exert its functions by interacting with multiple effector proteins in different complexes. Acts as a major regulator of membrane delivery during cytokinesis. Together with MYO5B and RAB8A participates in epithelial cell polarization. Together with RAB3IP, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis (By similarity). Together with MYO5B participates in CFTR trafficking to the plasma membrane and TF (Transferrin) recycling in nonpolarized cells. Required in a complex with MYO5B and RAB11FIP2 for the transport of NPC1L1 to the plasma membrane. Participates in the sorting and basolateral transport of CDH1 from the Golgi apparatus to the plasma membrane. Regulates the recycling of FCGRT (receptor of Fc region of monomeric Ig G) to basolateral membranes (By similarity). **Subunit:** Interacts with RIP11 and STXBP6. Interacts with SGSM1, SGSM2 and SGSM3 (By similarity). Interacts with EXOC6 in a GTP-dependent manner (By similarity). Interacts with RAB11FIP1, RAB11FIP2, RAB11FIP3 (via its C-terminus) and RAB11FIP4. Interacts with EVI5; EVI5 and RAB11FIP3 may be mutually exclusive and compete for binding RAB11A. Interacts with SPE39//C14orf133. Interacts with MYO5B. Found in a complex with MYO5B and CFTR. Interacts with NPC1L1. Interacts (GDP-bound form) with ZFYVE27. Interacts with BIRC6/bruce. **Subcellular Location:** Cell membrane; Peripheral membrane protein. Recycling endosome membrane; Peripheral membrane protein. Cleavage furrow. Note=Translocates with RAB11FIP2 from the vesicles of the endocytic recycling compartment (ERC) to the plasma membrane. Localizes to the cleavage furrow. Colocalizes with PARD3, PRKCI, EXOC5, OCLN, PODXL and RAB8A in apical membrane initiation sites (AMIS) during the generation of apical surface and luminogenesis. **Similarity:** Belongs to the small GTPase superfamily. Rab family. **Database links:** **Entrez Gene:** 415544 Chicken **Entrez Gene:** 534708 Cow **Entrez Gene:** 403957 Dog **Entrez Gene:** 8766 Human **Entrez Gene:** 53869 Mouse **Entrez Gene:** 100009072 Rabbit **Entrez Gene:** 81830 Rat

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

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

	Entrez Gene: 447589 Xenopus laevis **Entrez Gene:** 492487 Zebrafish Omim: 605570 Human **SwissProt:** Q5ZJN2 Chicken **SwissProt:** Q2TA29 Cow **SwissProt:** P62490 Dog **SwissProt:** P62491 Human **SwissProt:** P62492 Mouse **SwissProt:** Q52NJ1 Pig **SwissProt:** P62493 Rabbit **SwissProt:** P62494 Rat **Unigene:** 321541 Human **Unigene:** 1387 Mouse **Unigene:** 1016 Rat

[VALIDATION IMAGES]

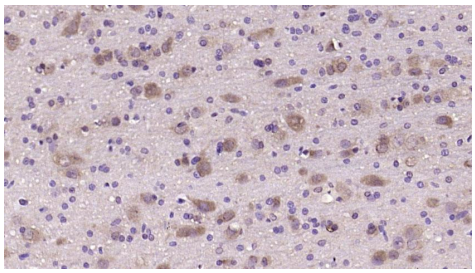


Figure 1. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Rab11) Polyclonal Antibody, Unconjugated (SL6173R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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