SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-RAB8A antibody

Catalog Number: SL6176R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	RAB8A
Immunogen:	KLH conjugated synthetic peptide derived from human RAB8A: 101-207/207
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:	WB=1:500-2000 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:	Human, Mouse, Rat, (predicted: Chicken, Cow, Sheep)
Predicted MW.:	23kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	The protein encoded by this gene is a member of the RAS superfamily which are small GTP/GDP-binding proteins with an average size of 200 amino acids. The RAS-related proteins of the RAB/YPT family may play a role in the transport of proteins from the endoplasmic reticulum to the Golgi and the plasma membrane. This protein shares 97%, 96%, and 51% similarity with the dog RAB8, mouse MEL, and mouse YPT1 proteins, respectively and contains the 4 GTP/GDP-binding sites that are present in all the RAS proteins. The putative effector-binding site of this protein is similar to that of the RAB/YPT proteins. However, this protein contains a C-terminal CAAX motif that is characteristic of many RAS superfamily members but which is not found in YPT1 and the majority of RAB proteins. Although this gene was isolated as a transforming gene from a melanoma cell line, no linkage between

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	MEL and malignant melanoma has been demonstrable. This oncogene is located 800 kb distal to MY09B on chromosome 19p13.1. **Function:** May be involved in vesicular trafficking and neurotransmitter release. Together with RAB11A, RAB3IP, 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. Together with MYO5B and RAB11A participates in epithelial cell polarization. **Subunit:** Interacts with MAP4K2 and SYTL4. Interacts with SGSM1 and SGSM3 (By similarity). Interacts with OPTN. Interacts with RAB3IP. Interacts with MYO5B. Interacts with PIFO. Interacts with BIRC6/bruce. Interacts with OCRL. **Subcellular Location:** Cell membrane; Lipid-anchor; Cytoplasmic side (Potential). Golgi apparatus. Cytoplasm, perinuclear region. Cell projection. Note=Colocalizes with OPTN at the Golgi complex and in vesicular structures close to the plasma membrane. In the GDP-bound form, present in the perinuclear region. Shows a polarized distribution to distal regions of cell protrusions in the GTP-bound form. Colocalizes with PARD3, PRKCI, EXOC5, OCLN, PODXL and RAB11A 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:** 100125881 Cow **Entrez Gene:** 403773 Dog **Entrez Gene:** 4218 Human **Entrez Gene:** 17274 Mouse **Entrez Gene:** 117103 Rat Omim: 165040 Human **SwissProt:** Q5F470 Chicken **SwissProt:** A4FV54 Cow **SwissProt:** P61007 Dog **SwissProt:** P61006 Human **SwissProt:** P55258 Mouse **SwissProt:** P35280 Rat **Unigene:** 642874 Human **Unigene:** 709846 Human **Unigene:** 162811 Mouse **Unigene:** 16064 Rat

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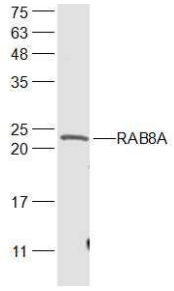
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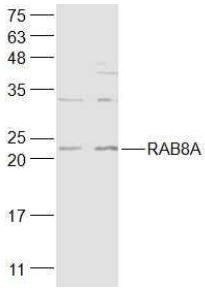
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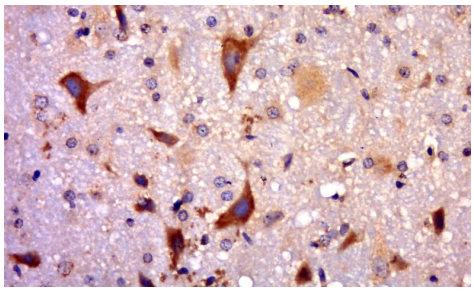
[VALIDATION IMAGES]



Sample:
NIH/3T3(Mouse) Cell Lysate at 30 ug
Primary: Anti-RAB8A (SL6176R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 23 kD
Observed band size: 23 kD



Sample:
HepG2(Human) Cell Lysate at 30 ug
Hela(Human) Cell Lysate at 30 ug
Primary: Anti-RAB8A (SL6176R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 23 kD
Observed band size: 23 kD



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 (RAB8A) Polyclonal Antibody, Unconjugated (SL6176R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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