SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Rab3A+Rab3B+Rab3C+Rab3D antibody

Catalog Number: SL6180R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Rab3A+Rab3B+Rab3C+Rab3D
Immunogen:	KLH conjugated synthetic peptide derived from human Rab3A+Rab3B+Rab3C+Rab3D: 101-150/220
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:	Mouse, Rat, (predicted: Human)
Predicted MW.:	24-27kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	Rab proteins belong to the Ras small GTPase superfamily. The GTP-binding Rab3 subfamily has four known isoforms: 3A, 3B, 3C and 3D. These proteins are expressed in the highest concentration in the brain and endocrine tissues and are involved in regulated exocytosis of hormones and neurotransmitters. Specifically Rab3's are thought to play a role in presynaptic vesicle trafficking and priming. **Function:** Involved in exocytosis by regulating a late step in synaptic vesicle fusion. Could play a role in neurotransmitter release by regulating membrane flow in the nerve terminal. **Subunit:** Heterodimer with RIMS2. Part of a ternary complex involving PCLO and EPAC2. Interacts with RPH3A and RPH3AL. Interacts with the

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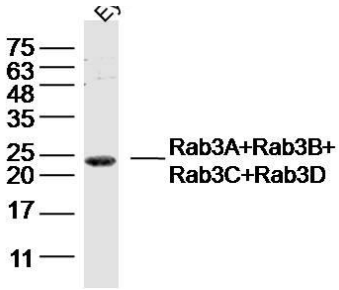
	exocyst complex through SEC15. Binds SYTL4 and RIMS1. Interacts with RAB3IP. Interacts with SGSM1 and SGSM3. **Subcellular Location:** Cell membrane; Lipid-anchor; Cytoplasmic side. **Tissue Specificity:** Specifically expressed in brain. **Similarity:** Belongs to the small GTPase superfamily. Rab family. **Database links:** **Entrez Gene:** 115827 Human **Entrez Gene:** 5864 Human **Entrez Gene:** 5865 Human **Entrez Gene:** 9545 Human **Entrez Gene:** 19339 Mouse **Entrez Gene:** 19340 Mouse **Entrez Gene:** 67295 Mouse **Entrez Gene:** 69908 Mouse **Entrez Gene:** 140665 Rat **Entrez Gene:** 171058 Rat **Entrez Gene:** 25531 Rat **Entrez Gene:** 81755 Rat **Entrez Gene:** 399230 Xenopus laevis **Entrez Gene:** 495404 Xenopus laevis Omim: 179490 Human Omim: 179510 Human Omim: 604350 Human **SwissProt:** O95716 Human **SwissProt:** P20336 Human **SwissProt:** P20337 Human **SwissProt:** Q5VUL2 Human **SwissProt:** Q96E17 Human **SwissProt:** P35276 Mouse **SwissProt:** P62823 Mouse **SwissProt:** P63011 Mouse **SwissProt:** Q0PD62 Mouse **SwissProt:** Q0PD63 Mouse **SwissProt:** Q9CZT8 Mouse **SwissProt:** Q9JME6 Mouse **SwissProt:** P62824 Rat **SwissProt:** P63012 Rat **SwissProt:** Q63941 Rat **SwissProt:** Q63942 Rat **SwissProt:** Q6P9W6 Rat

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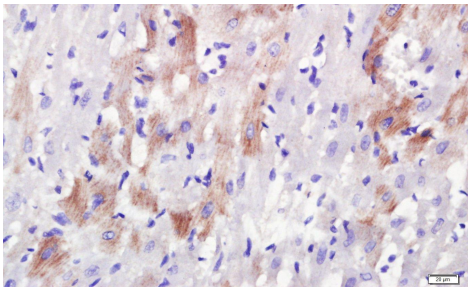
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	SwissProt: Q3KQA5 Xenopus laevis **Unigene:** 123072 Human **Unigene:** 27744 Human **Unigene:** 482173 Human **Unigene:** 8036 Human

[VALIDATION IMAGES]



Sample: Eye (Mouse) Lysate at 40 ug
Primary: Anti-Rab3A+Rab3B+Rab3C+Rab3D (SL6180R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 24-27 kD
Observed band size: 24 kD



Paraformaldehyde-fixed, paraffin embedded (rat heart); 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 (Rab3A+Rab3B+Rab3C+Rab3D) Polyclonal Antibody, Unconjugated (SL6180R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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