



Rabbit Anti-RPH3AL antibody

SL4183R

Product Name:	RPH3AL
Chinese Name:	Ras相关GTPBinding protein抗体
Alias:	Noc2; Rab effector Noc2; Rabphilin 3A-like (without C2 domains); Rabphilin 3A-like; Rabphilin-3A-like protein; RPH3AL; RPH3L_HUMAN; No C2 domains protein; Gm1753.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	34kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RPH3AL:25-130/315
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Rabphilin-3AL (rabphilin-3A-like), also known as RPH3AL or NOC2, is a cytoplasmic Rab GTPase effector. It contains one FYVE-type zinc finger and one Rab-binding (RBD) domain, but unlike its related protein, rabphilin-3A, rabphilin-3AL does not contain any C2 domains. Rabphilin-3AL is expressed in a variety of tissues, with highest levels found in kidney, skeletal muscle, pancreas, liver, ovary, stomach, heart

and thyroid. It is believed to play a role regulating calcium-dependent secretory vesicle exocytosis in endocrine and exocrine cells. Via its RBD domain, rabphilin-3AL is capable of binding Rab 27a and, through this interaction, rabphilin-3AL is recruited to dense-core vesicles. With lower affinity, rabphilin-3AL can also bind Rab 3 and Rab 8 with its RBD domain. Through an interaction with Rab 3, rabphilin-3AL can inhibit G-protein signaling in endocrine pancreas and positively regulate insulin secretion. Rabphilin-3AL knockout mice display accumulation of secretory granules and irregular shape in exocrine cells.

Function:

Rab GTPase effector involved in the late steps of regulated exocytosis, both in endocrine and exocrine cells (By similarity). Acts as a potential RAB3B effector protein in epithelial cells.

Subunit:

Recruited to dense-core vesicles through specific interaction with RAB27A in endocrine cells. Interacts with RAB3A, RAB3B, RAB3C and RAB3D. Interacts with ZYX.

Subcellular Location:

Cytoplasm. Cytoplasmic vesicle, secretory vesicle membrane. Recruited to the vesicle membrane in a GTP-and RAB3B-dependent manner in epithelial cells.

Tissue Specificity:

Moderate to high levels of expression in thyroid, ovary, stomach, heart, pancreas, skeletal muscle, kidney and liver. Also detected in epithelial cells.

Similarity:

Contains 1 FYVE-type zinc finger.
Contains 1 RabBD (Rab-binding) domain.

SWISS:

Q9UNE2

Gene ID:

9501

Database links:

[Entrez Gene: 9501](#)Human

[Omim: 604881](#)Human

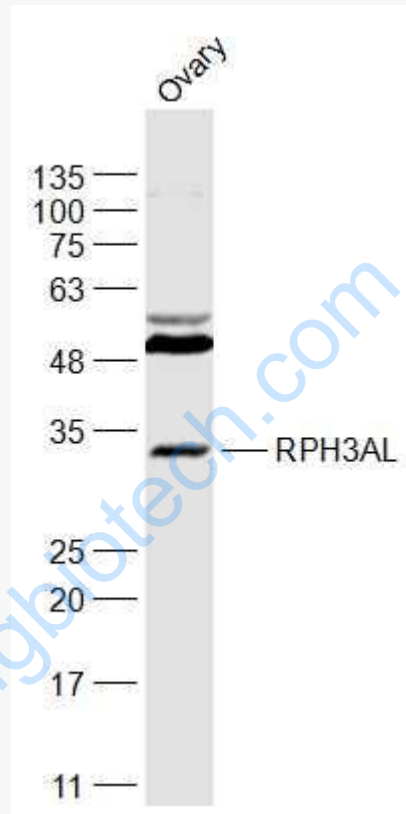
[SwissProt: Q9UNE2](#)Human

[Unigene: 651925](#)Human

Important Note:

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

Picture:



Sample:

Ovary (Mouse) Lysate at 40 ug

Primary: Anti-RPH3AL (SL4183R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 34 kD

Observed band size: 34 kD