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Rabbit Anti-RILPL2 antibody

SL11944R

Product Name	RILPL2
Chinese Name	Rab 溶酶体相互作用蛋白样 2 抗体
Alias	FLJ30380; FLJ32372; MGC7036; p40phox-binding protein; Rab-interacting lysosomal protein-like 2; RILP-like protein 2; RILPL2; RIPL2_HUMAN; RLP2; Rab interacting lysosomal protein-like 2.
Research Area	Cell biology Neurobiology Signal transduction Cytoskeleton G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Pig,Cow,Horse,Sheep)
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.
Theoretical molecular weight	24kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human RILPL2: 111-211/211
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	RILPL2 is a 211 amino acid protein that belongs to the RILPL family. RILPL2 does not regulate lysosomal morphology or distribution. RILPL2 shares 32%

and 18% amino acid identity with RILPL1 and RILP, respectively. RILPL2 as a novel interacting partner for the actin-based molecular motor MyoVa, and has a novel role for RILPL2 in controlling neuronal morphogenesis. It has been suggested that there is also a novel role for RILPL2 in the regulation of cellular shape and dendritic-spine morphogenesis, probably via the Rac1-Pak pathway. PCR analysis of human tissues detects highest RILPL2 expression in lung, followed by placenta. Lower expression is detected in liver, kidney, pancreas, heart and brain, but no expression is detected in skeletal muscle. The RILPL2 gene is conserved in chimpanzee, dog, cow, mouse, rat, chicken and zebrafish, and maps to human chromosome 12q24.31.

Function:
Involved in cell shape and neuronal morphogenesis, positively regulating the establishment and maintenance of dendritic spines. May activate RAC1

Subunit:
Interacts (via N-terminus) with MYO5A, the interaction is required for its role in dendrite formation. Interacts with RAC1 (By similarity).

Subcellular Location:
Cytoplasm

Tissue Specificity:
Widely expressed. Expressed at higher level in lung.

Similarity:
Belongs to the RILPL family.
Contains 1 RILP-like domain.

SWISS:
Q969X0

Gene ID:
196383

Database links:

Entrez Gene: 196383 Human

Omim: 614093 Human

SwissProt: Q969X0 Human

Unigene: 488173 Human

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