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RILPL2 Rabbit pAb

Catalog # AP98805

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q969X0
Other Accession	Q969X0
Reactivity	Rat, Mouse
Predicted	Pig, Human, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23986
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RILPL2
Epitope Specificity	111-211/211
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the RILPL family. Contains 1 RILP-like domain.
SUBUNIT	Interacts (via N-terminus) with MYO5A, the interaction is required for its role in dendrite formation. Interacts with RAC1 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	196383
Other Names	RLP2; RIPL2_HUMAN; RILPL2; Rab-interacting lysosomal protein-like 2; p40phox-binding protein; Rab interacting lysosomal protein like 2; Rab interacting lysosomal protein-like 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	RILPL2
Synonyms	RLP2
Function	Involved in cell shape and neuronal morphogenesis, positively regulating the establishment and maintenance of dendritic spines (By similarity). Plays a role in cellular protein transport, including protein transport away from primary cilia (By similarity). May function via activation of RAC1 and PAK1 (By similarity).
Cellular Location	Cytoplasm, cytosol. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, cilium
Tissue Location	Widely expressed. Expressed at higher level in lung.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.