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FLJ39378 Rabbit pAb

Catalog # AP99247

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5EBL4
Other Accession	Q5EBL4
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47108
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FLJ39378
Epitope Specificity	311-403/403
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.
Post-translational modifications	S-nitrosylation is required for the interaction with GAPDH.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Neuroprotective protein, which acts by sequestring GAPDH in the cytosol and prevent the apoptotic function of GAPDH in the nucleus. Competes with SIAH1 for binding GAPDH (By similarity). Does not regulate lysosomal morphology and distribution.

Additional Information

Gene ID	353116
Other Names	GOSPEL; OPDM4; RLP1; 2900002H16Rik; 6330559I19Rik; RGD1307973; RIPL1_HUMAN; RILPL1; Rab-interacting lysosomal-like protein 1; RIPL1_MOUSE; RIPL1_RAT; GAPDH's competitor of SIAH1 protein enhances life (GOSPEL); Rab interacting lysosomal protein like 1
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	RILPL1
Synonyms	RLP1
Function	Plays a role in the regulation of cell shape and polarity (By similarity). Plays a role in cellular protein transport, including protein transport away from primary cilia (By similarity). Neuroprotective protein, which acts by sequestring GAPDH in the cytosol and prevent the apoptotic function of GAPDH in the nucleus (By similarity). Competes with SIAH1 for binding GAPDH (By similarity). Does not regulate lysosomal morphology and distribution (PubMed:14668488). Binds to RAB10 following LRRK2-mediated RAB10 phosphorylation which leads to inhibition of ciliogenesis (PubMed:30398148).
Cellular Location	Cytoplasm, cytosol. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Cytoplasm, cytoskeleton, cilium basal body
Tissue Location	Widely expressed. Expressed at lower level in liver and kidney.

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