

RLP2 Antibody

Catalog # ASC11469

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q969X0
Other Accession	NP_659495 , 21450828
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	23986
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RLP2 antibody can be used for detection of RLP2 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 2.5 μ g/mL.

Additional Information

Gene ID	196383
Other Names	RILP-like protein 2, Rab-interacting lysosomal protein-like 2, p40phox-binding protein, RILPL2, RLP2
Target/Specificity	RILPL2;
Reconstitution & Storage	RLP2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	RLP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

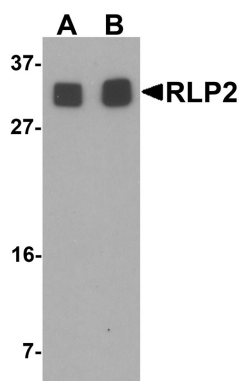
Background

RLP2 Antibody: The Rab interacting lysosomal protein-like 2 (RLP2) protein is related to the lysosomal protein RILP which interacts with RAB7, a small GTPase that controls transport to endocytic degradative compartments. Little is known of the exact function of RLP2, but it is thought that RILP is a downstream effector of RAB7 and both proteins act together in the regulation of late endocytic traffic, suggesting that RLP2 may be involved in endocytic traffic with RILP or play a similar role. RILP and possibly RLP2 may also play a role in the biogenesis of multivesicular bodies.

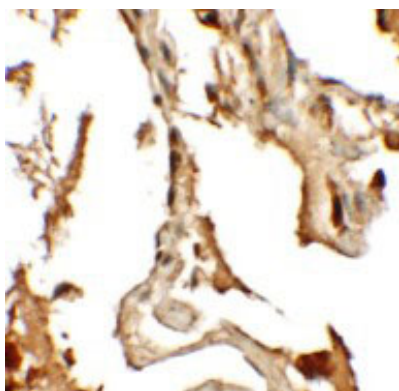
References

Wang T, Wong KK, and Hong W. A unique region of RILP distinguishes it from its related proteins in its regulation of lysosomal morphology and interaction with Rab7 and Rab34. *Mol. Biol. Cell* 2004; 15:815-26.
Cantalupo G, Alifano P, Roberti V, et al. Rab-interacting lysosomal protein (RILP): the Rab7 effector required for transport to lysosomes. *EMBO J.* 2001; 20:683-93.
Progida C, Spinosa MR, De Luca A, et al. RILP interacts with the VPS22 component of the ESCRT-II complex. *Biochem. Biophys. Res. Commun.* 2006; 347:1074-9.

Images

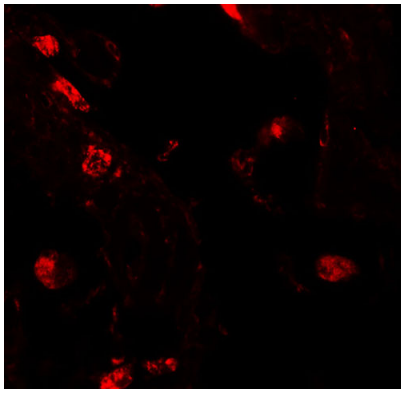


Western blot analysis of RLP2 in A549 cell lysate with RLP2 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunohistochemistry of RLP2 in human lung tissue with RLP2 antibody at 2.5 $\mu\text{g/mL}$.

Immunofluorescence of RLP2 in human lung tissue with RLP2 antibody at 20 $\mu\text{g/mL}$.



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