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SEC23IP Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14511b

Product Information

Application	WB, E
Primary Accession	Q9Y6Y8
Other Accession	NP_009121.1
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34297
Calculated MW	111076
Antigen Region	724-752

Additional Information

Gene ID	11196
Other Names	SEC23-interacting protein, p125, SEC23IP
Target/Specificity	This SEC23IP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 724-752 amino acids from the C-terminal region of human SEC23IP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SEC23IP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SEC23IP
Function	Plays a role in the organization of endoplasmic reticulum exit sites. Specifically binds to phosphatidylinositol 3-phosphate (PI(3)P), phosphatidylinositol 4-phosphate (PI(4)P) and phosphatidylinositol

	5-phosphate (PI(5)P).
Cellular Location	Cytoplasmic vesicle, COPII-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum
Tissue Location	Ubiquitously expressed with stronger levels detected in heart, liver and skeletal muscle

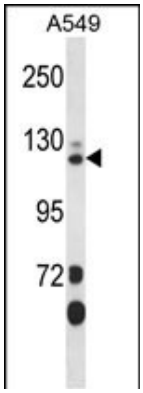
Background

COPII-coated vesicles are involved in protein transport from the endoplasmic reticulum to the Golgi apparatus. The protein encoded by this gene was identified by its interaction with a mouse protein similar to yeast Sec23p, an essential component of the COPII. This protein shares significant similarity with phospholipid-modifying proteins, especially phosphatidic acid preferring-phospholipase A1. Overexpression of this protein has been shown to cause disorganization of the endoplasmic reticulum-Golgi intermediate compartment and Golgi apparatus, which suggests its role in the early secretory pathway. [provided by RefSeq].

References

Ong, Y.S., et al. J. Cell Biol. 190(3):331-345(2010)
Trynka, G., et al. Gut 58(8):1078-1083(2009)
Li, H., et al. J. Biol. Chem. 281(21):14748-14755(2006)
Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)
Shimoi, W., et al. J. Biol. Chem. 280(11):10141-10148(2005)

Images



SEC23IP Antibody (C-term) (Cat. #AP14511b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the SEC23IP antibody detected the SEC23IP protein (arrow).

Citations

- Dynamic O-GlcNAcylation of Sec23-interacting protein regulates COPII function.
- Nrf1 coordinates proteasome activity and autophagy to maintain cardiac proteostasis.
- A cascade of ER exit site assembly that is regulated by p125A and lipid signals.

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