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SEC13 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10738c

Product Information

Application	WB, FC, E
Primary Accession	P55735
Other Accession	NP_899195.1
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23825
Calculated MW	35541
Antigen Region	72-100

Additional Information

Gene ID	6396
Other Names	Protein SEC13 homolog, SEC13-like protein 1, SEC13-related protein, SEC13, D3S1231E, SEC13L1, SEC13R
Target/Specificity	This SEC13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-100 amino acids from the Central region of human SEC13.
Dilution	WB~~1:1000 FC~~1:10~50 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	SEC13 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SEC13
Function	Functions as a component of the nuclear pore complex (NPC) and the COPII coat (PubMed:8972206). At the endoplasmic reticulum, SEC13 is involved in the biogenesis of COPII-coated vesicles (PubMed:8972206). Required for the

exit of adipsin (CFD/ADN), an adipocyte-secreted protein from the endoplasmic reticulum (By similarity).

Cellular Location

Cytoplasmic vesicle, COPII-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus, nuclear pore complex. Lysosome membrane. Note=In interphase, localizes at both sides of the NPC.

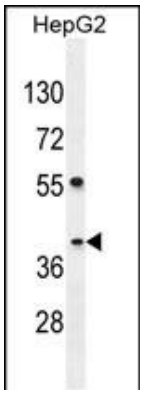
Background

The protein encoded by this gene belongs to the SEC13 family of WD-repeat proteins. It is a constituent of the endoplasmic reticulum and the nuclear pore complex. It has similarity to the yeast SEC13 protein, which is required for vesicle biogenesis from endoplasmic reticulum during the transport of proteins. Multiple alternatively spliced transcript variants have been found.

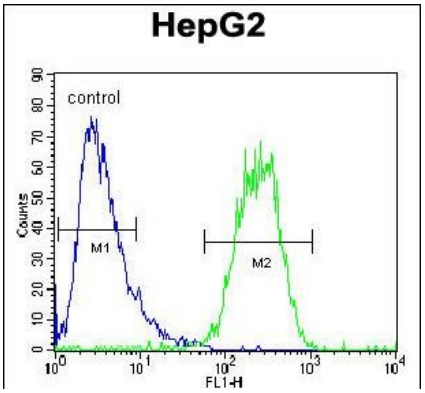
References

Nielsen, A.L. Biochem. Biophys. Res. Commun. 388(3):571-575(2009)
Townley, A.K., et al. J. Cell. Sci. 121 (PT 18), 3025-3034 (2008) :
Stagg, S.M., et al. Cell 134(3):474-484(2008)
Hsia, K.C., et al. Cell 131(7):1313-1326(2007)
Glavy, J.S., et al. Proc. Natl. Acad. Sci. U.S.A. 104(10):3811-3816(2007)

Images



SEC13 Antibody (Center) (Cat. #AP10738c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the SEC13 antibody detected the SEC13 protein (arrow).



SEC13 Antibody (Center) (Cat. #AP10738c) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- LMAN1 (ERGIC-53) promotes trafficking of neuroreceptors.

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