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SC24A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4701c

Product Information

Application	WB, IHC-P, E
Primary Accession	O95486
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24813
Calculated MW	119749
Antigen Region	636-663

Additional Information

Gene ID	10802
Other Names	Protein transport protein Sec24A, SEC24-related protein A, SEC24A
Target/Specificity	This SC24A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 636-663 amino acids from the Central region of human SC24A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	SC24A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SEC24A (HGNC:10703)
Function	Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules for

their transport to the Golgi complex (PubMed:17499046, PubMed:18843296, PubMed:20427317). Plays a central role in cargo selection within the COPII complex and together with SEC24B may have a different specificity compared to SEC24C and SEC24D. May package preferentially cargos with cytoplasmic DxE or LxxLE motifs and may also recognize conformational epitopes (PubMed:17499046, PubMed:18843296).

Cellular Location

Cytoplasmic vesicle, COPII-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytosol

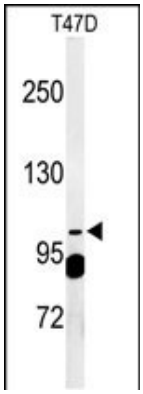
Background

SC24A is a component of coat protein II (COPII; see MIM 601924)-coated vesicles that mediate protein transport from the endoplasmic reticulum. SEC24A is 1 of several mammalian proteins that show structural and functional homology to yeast Sec24.

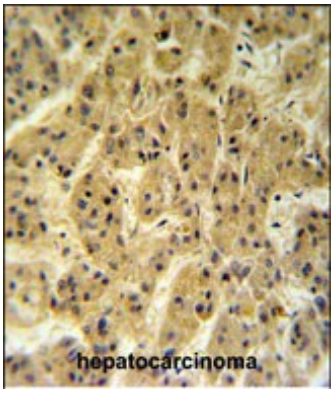
References

Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
Mancias, J.D., et al. Mol. Cell 26(3):403-414(2007)
Wendeler, M.W., et al. EMBO Rep. 8(3):258-264(2007)

Images



Western blot analysis of SC24A Antibody (Center) (Cat. #AP4701c) in T47D cell line lysates (35ug/lane). SC24A (arrow) was detected using the purified Pab.



SC24A Antibody (Center) (Cat. #AP4701c) IHC analysis in formalin fixed and paraffin embedded hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SC24A Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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