

# SC24A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP4701c

## **Product Information**

**Application** WB, IHC-P, E **Primary Accession** 095486 Reactivity Human 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:<u>20427317</u>). 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:<u>17499046</u>, PubMed:<u>18843296</u>).

#### **Cellular Location**

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

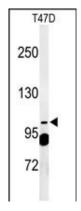
# **Background**

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.

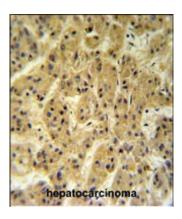
### References

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.

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