

SEC24B Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22320b

Specification

SEC24B Antibody (C-Term) - Product Information

Application	WB, FC,E
Primary Accession	O95487
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	137418

SEC24B Antibody (C-Term) - Additional Information

Gene ID 10427

Other Names

Protein transport protein Sec24B, SEC24-related protein B, SEC24B

Target/Specificity

This SEC24B antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1209-1239 amino acids from the human region of human SEC24B.

Dilution

WB~~1:2000

FC~~1:25

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

SEC24B Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

SEC24B Antibody (C-Term) - Protein Information

Name SEC24B ([HGNC:10704](#))

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 SEC24A 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

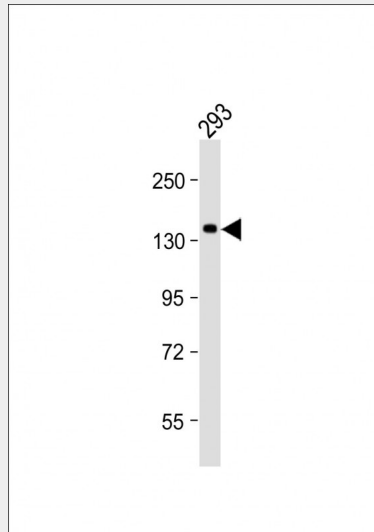
Cytoplasmic vesicle, COPII-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytosol

SEC24B Antibody (C-Term) - Protocols

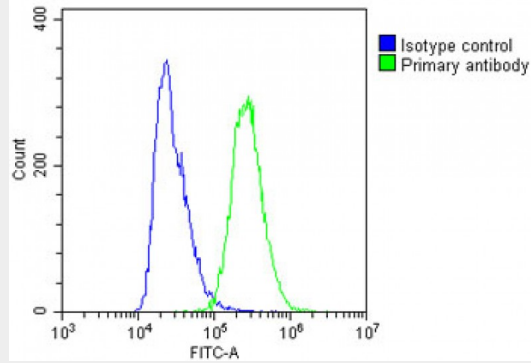
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SEC24B Antibody (C-Term) - Images



Anti-SEC24B Antibody (C-Term) at 1:2000 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 137 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing A431 cells stained with AP22320b (green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

SEC24B Antibody (C-Term) - Background

Component of the COPII coat, that covers ER-derived vesicles involved in transport from the endoplasmic reticulum to the Golgi apparatus. COPII acts in the cytoplasm to promote the transport of secretory, plasma membrane, and vacuolar proteins from the endoplasmic reticulum to the Golgi complex.

SEC24B Antibody (C-Term) - References

- Pagano A., et al. *J. Biol. Chem.* 274:7833-7840(1999).
- Hillier L.W., et al. *Nature* 434:724-731(2005).
- Olsen J.V., et al. *Cell* 127:635-648(2006).
- Dephoure N., et al. *Proc. Natl. Acad. Sci. U.S.A.* 105:10762-10767(2008).
- Gauci S., et al. *Anal. Chem.* 81:4493-4501(2009).