

Rabbit SEC23A Polyclonal Antibody | anti-SEC23A antibody

Anti-SEC23A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125744	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

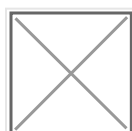
PRODUCT SYNONYMS

SEC23A; Polyclonal Antibody; Anti-SEC23A Antibody; Protein transport protein Sec23A; hSec23A; SEC23-related protein A; SEC23 homolog A; COPII coat complex component; anti-SEC23A antibody

PRODUCT SPECIFICATIONS

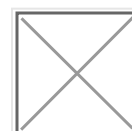
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for SEC23A detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-SEC23A antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human SEC23A recombinant protein (Position: R190-Q579).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of HeLa cells using anti-SEC23A antibody (AAA125744). Overlay histogram showing HeLa cells stained with AAA125744 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SEC23A Antibody (AAA125744, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 3. IF analysis of SEC23A using anti-SEC23A antibody (AAA125744). SEC23A was detected in immunocytochemical section of HepG2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-SEC23A Antibody (AAA125744) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of SEC23A using anti-SEC23A antibody (AAA125744). SEC23A was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-SEC23A Antibody (AAA125744) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of SEC23A using anti-SEC23A antibody (AAA125744). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30µg of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates Lane 2: human HEK293 whole cell lysates Lane 3: human A549 whole cell lysates Lane 4: human PC-3 whole cell lysates Lane 5: rat liver tissue lysates Lane 6: rat stomach tissue lysates Lane 7: rat lung tissue lysates Lane 8: mouse liver tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SEC23A antigen affinity purified polyclonal antibody (Catalog # AAA125744) at 0.25 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SEC23A at approximately 86KD. The expected band size for SEC23A is at 86KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SEC23A antibody	Sec23 homolog A (<i>S. cerevisiae</i>), also known as SEC23A, is a protein which in humans is encoded by the SEC23A gene. The protein encoded by this gene is a member of the SEC23 subfamily of the SEC23/SEC24 family. It is part of a protein complex and found in the ribosome-free transitional face of the endoplasmic reticulum (ER) and associated vesicles. This protein has similarity to yeast Sec23p component of COPII. COPII is the coat protein complex responsible for vesicle budding from the ER. The encoded protein is suggested to play a role in the ER-Golgi protein trafficking.
References	1. Boyadjiev, S. A., Fromme, J. C., Ben, J., Chong, S. S., Nauta, C., Hur, D. J., Zhang, G., Hamamoto, S., Schekman, R., Ravazzola, M., Orci, L., Eyaid, W. Cranio-lenticulo-sutural dysplasia is caused by a SEC23A mutation leading to abnormal endoplasmic-reticulum-to-Golgi trafficking. <i>Nature Genet.</i> 38: 1192-1197, 2006. 2. Boyadjiev, S. A., Justice, C. M., Eyaid, W., McKusick, V. A., Lachman, R. S., Chowdry, A. B., Jabak, M., Zwaan, J., Wilson, A. F., Jabs, E. W. A novel dysmorphic syndrome with open calvarial sutures and sutural cataracts maps to chromosome 14q13-q21. <i>Hum. Genet.</i> 113: 1-9, 2003. 3. Boyadjiev, S. A., Kim, S. -D., Hata, A., Haldeman-Englert, C., Zackai, E. H., Naydenov, C., Hamamoto, S., Schekman, R. W., Kim, J. Cranio-lenticulo-sutural dysplasia associated with defects in collagen secretion. <i>Clin. Genet.</i> 80: 169-176, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38202214
NCBI GeneID	10484
NCBI Accession #	NP_006355
NCBI GenBank Nucleotide #	NM_006364
UniProt Accession #	Q15436 ; Q8NE16 ; B2R5P4 ; B3KXI2
Molecular Weight	63,101 Da
NCBI Official Full Name	protein transport protein Sec23A
NCBI Official Synonym Full Names	Sec23 homolog A (<i>S. cerevisiae</i>)
NCBI Official Symbol	SEC23A
NCBI Official Synonym Symbols	CLSD
NCBI Protein Information	protein transport protein Sec23A; SEC23-related protein A
UniProt Protein Name	Protein transport protein Sec23A
UniProt Gene Name	SEC23A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sec23a-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125744>