

## Product datasheet

# Anti-SEC23A antibody [EPR13270(B)] ab179811

**KO VALIDATED** Recombinant RabMAB

[3 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-SEC23A antibody [EPR13270(B)]
<b>Description</b>	Rabbit monoclonal [EPR13270(B)] to SEC23A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB <b>Unsuitable for:</b> ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human SEC23 aa 300-400 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">Q15436</a>
<b>Positive control</b>	HeLa, HepG2 and 293T cell lysates; HeLa cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAB<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13270(B)
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab179811 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

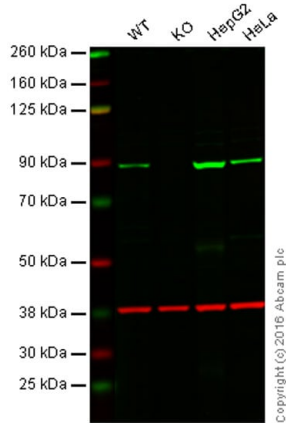
Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<b>WB</b>		1/10000 - 1/50000. Predicted molecular weight: 86 kDa.

**Application notes** Is unsuitable for ICC/IF, IHC-P or IP.

## Target

<b>Function</b>	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.
<b>Involvement in disease</b>	Defects in SEC23A are the cause of cranio-lenticulosutural dysplasia (CLSD) [MIM:607812]; also known as cranio-lenticulo-sutural dysplasia. CLSD is an autosomal recessive syndrome characterized by late-closing fontanels, sutural cataracts, facial dysmorphisms and skeletal defects.
<b>Sequence similarities</b>	Belongs to the SEC23/SEC24 family. SEC23 subfamily.
<b>Cellular localization</b>	Smooth endoplasmic reticulum membrane. Golgi apparatus membrane. In the ribosome-free transitional face of the ER and associated vesicles.

## Images



Western blot - Anti-SEC23A antibody  
[EPR13270(B)] (ab179811)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

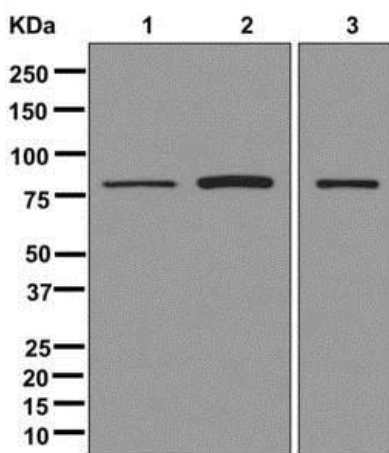
**Lane 2:** SEC23A knockout HAP1 cell lysate (20 µg)

**Lane 3:** HepG2 cell lysate (20 µg)

**Lane 4:** HeLa cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab179811 observed at 90 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab179811 was shown to specifically react with SEC23A when SEC23A knockout samples were used. Wild-type and SEC23A knockout samples were subjected to SDS-PAGE. ab179811 and **ab8245** (loading control to GAPDH) were both diluted 1/10000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-SEC23A antibody  
[EPR13270(B)] (ab179811)

**All lanes :** Anti-SEC23A antibody [EPR13270(B)] (ab179811) at 1/10000 dilution

**Lane 1 :** HeLa cell lysate

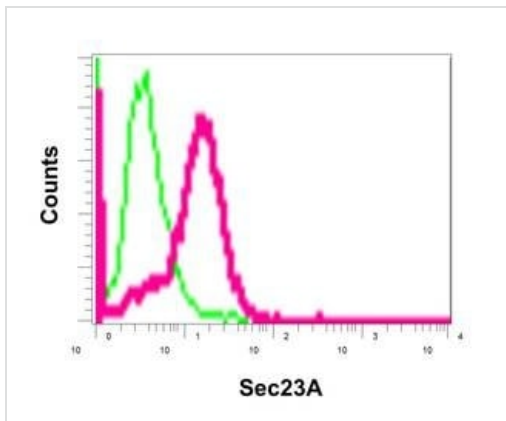
**Lane 2 :** HepG2 cell lysate

**Lane 3 :** 293T cell lysate

**Secondary**

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution





**Predicted band size:** 86 kDa



Intracellular flow cytometrical analysis of permeabilized HeLa cells labeling SEC23A with ab179811 at 1/10 (red) or a rabbit IgG (negative) (green).

Flow Cytometry (Intracellular) - Anti-SEC23A antibody [EPR13270(B)] (ab179811)

**Why choose a recombinant antibody?**

 <b>Research with confidence</b> Consistent and reproducible results	 <b>Long-term and scalable supply</b> Recombinant technology
 <b>Success from the first experiment</b> Confirmed specificity	 <b>Ethical standards compliant</b> Animal-free production

Anti-SEC23A antibody [EPR13270(B)] (ab179811)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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