

## Product datasheet

# Anti-COPB2 antibody ab229639

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

### Overview

---

<b>Product name</b>	Anti-COPB2 antibody
<b>Description</b>	Rabbit polyclonal to COPB2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Cynomolgus monkey, Orangutan 
<b>Immunogen</b>	Recombinant fragment corresponding to Human COPB2 aa 650 to the C-terminus. Database link: <a href="#">P35606</a> <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Human placenta tissue lysate; MCF7, HeLa, HepG2 and Jurkat whole cell lysates. IHC-P: Human spleen and placenta tissue.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</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: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab229639 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
WB		1/1000 - 1/5000. Detects a band of approximately 102 kDa (predicted molecular weight: 102, 99 kDa).
IHC-P		1/20 - 1/200.

## Target

### Function

The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors.

This coatomer complex protein, essential for Golgi budding and vesicular trafficking, is a selective binding protein (RACK) for protein kinase C, epsilon type. It binds to Golgi membranes in a GTP-dependent manner.

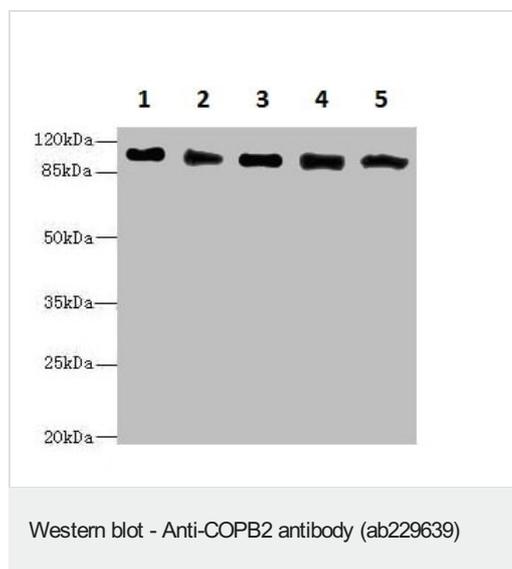
### Sequence similarities

Belongs to the WD repeat COPB2 family.  
Contains 9 WD repeats.

### Cellular localization

Cytoplasm. Golgi apparatus membrane. Cytoplasmic vesicle > COPI-coated vesicle membrane. The coatomer is cytoplasmic or polymerized on the cytoplasmic side of the Golgi, as well as on the vesicles/buds originating from it.

## Images



**All lanes** : Anti-COPB2 antibody (ab229639) at 1/1000 dilution

**Lane 1** : Human placenta tissue lysate

**Lane 2** : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

**Lane 3** : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 4** : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

**Lane 5** : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

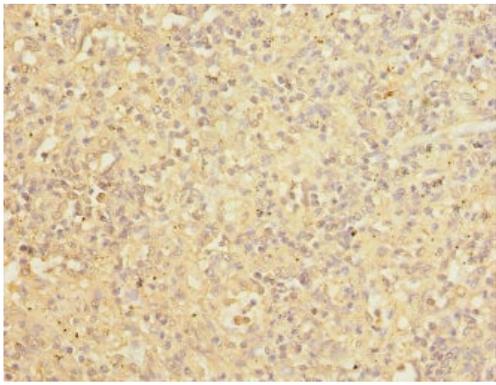
### Secondary

**All lanes :** Goat anti-Rabbit at 1/10000 dilution

Developed using the ECL technique.

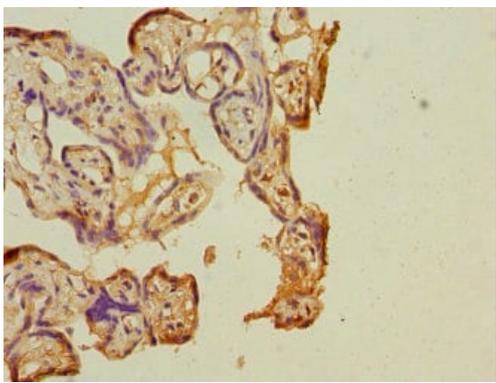
**Predicted band size:** 102, 99 kDa

**Observed band size:** 102 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COPB2 antibody (ab229639)

Paraffin-embedded human spleen tissue stained for COPB2 with ab229639 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COPB2 antibody (ab229639)

Paraffin-embedded human placenta tissue stained for COPB2 with ab229639 at 1/100 dilution in immunohistochemical analysis.

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

### **Our Promise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors