

## Product datasheet

### Anti-CCT2 antibody [EPR4084] $\alpha$ b92746

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [11 References](#) [12 Images](#)

#### Overview

Product name	Anti-CCT2 antibody [EPR4084]
Description	Rabbit monoclonal [EPR4084] to CCT2
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide within Human CCT2 aa 500-600 (C terminal). The exact sequence is proprietary.
Positive control	WB: HeLa, MCF-7 and Daudi cell lysates. Human, mouse, and rat bratin lysates; IHC-P: Human colon, lung and kidney tissue, Mouse and rat kidney tissue; ICC/IF: HeLa and MCF7 cells; Flow Cyt (intra): HeLa cells. IP: HeLa whole cell lysate
General notes	<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>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4084

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab92746 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
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/10000 - 1/50000. Predicted molecular weight: 57 kDa.
IP		1/10 - 1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> .
ICC/IF	★★★★★ (1)	1/500. <b>For unpurified use at 1/100 - 1/250</b>

## Target

### Function

Molecular chaperone; assists the folding of proteins upon ATP hydrolysis. As part of the BBS/CCT complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. Known to play a role, in vitro, in the folding of actin and tubulin.

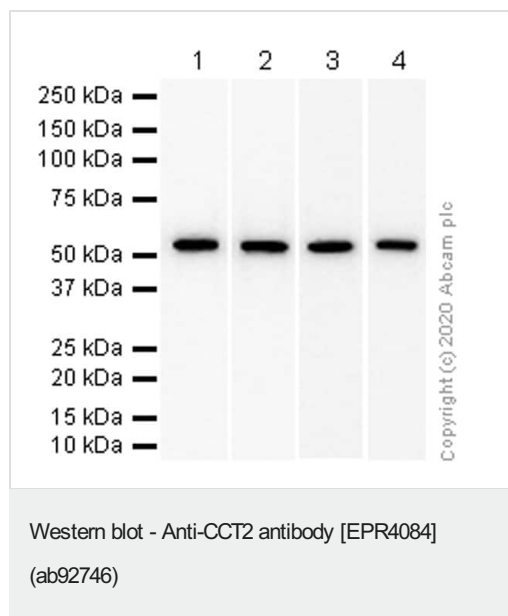
### Sequence similarities

Belongs to the TCP-1 chaperonin family.

### Cellular localization

Cytoplasm.

## Images



**All lanes :** Anti-CCT2 antibody [EPR4084] (ab92746) at 1/10000 dilution (Purified)

**Lane 1 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 2 :** Human brain lysate

**Lane 3 :** Mouse brain lysate

**Lane 4 :** Rat brain lysate

Lysates/proteins at 15 µg per lane.

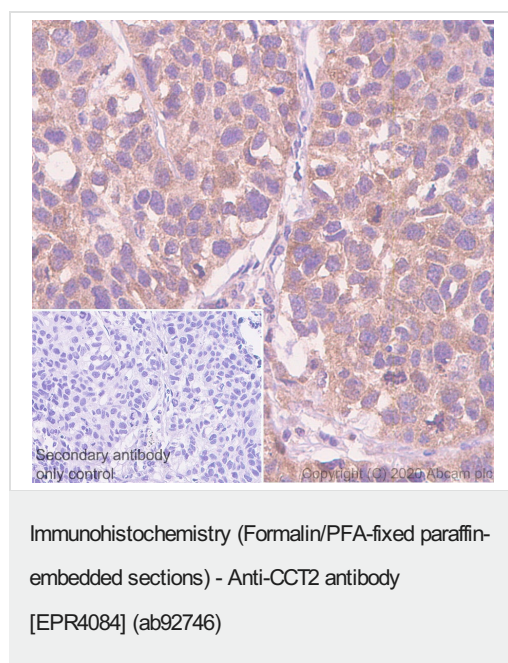
## Secondary

**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

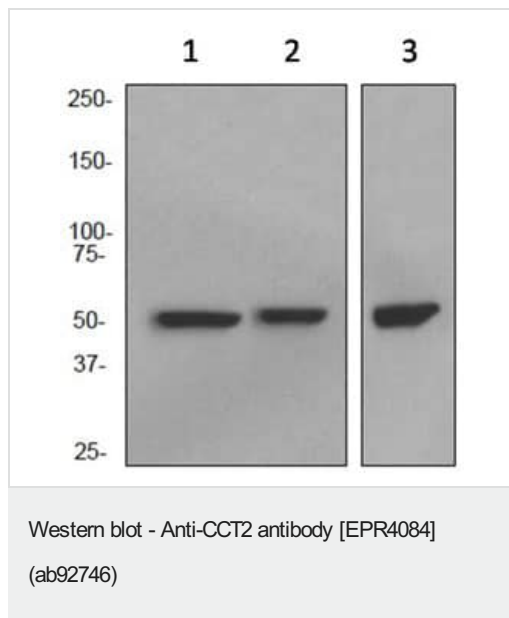
**Predicted band size:** 57 kDa

**Observed band size:** 57 kDa

**Blocking/Diluting buffer:** 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue sections labeling CCT2 with purified ab92746 at 1/24000 dilution (0.012 µg/mL). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



**All lanes :** Anti-CCT2 antibody [EPR4084] (ab92746) at 1/10000 dilution (unpurified)

**Lane 1 :** HeLa cell lysate

**Lane 2 :** MCF-7 cell lysate

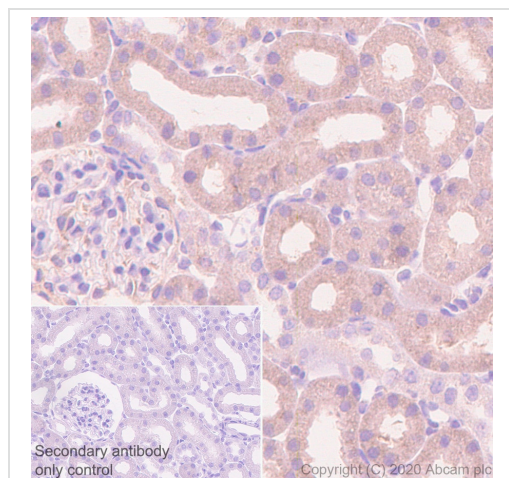
**Lane 3 :** Daudi cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

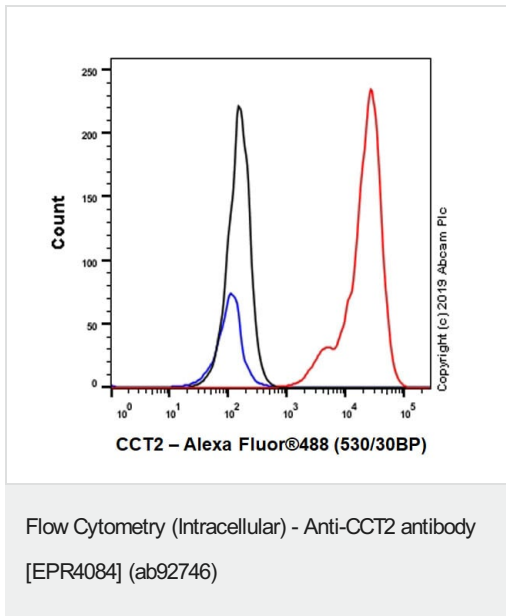
**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 57 kDa

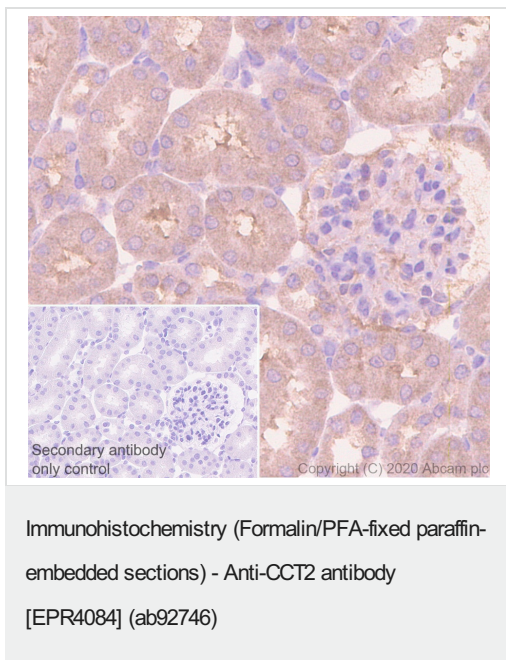


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue sections labeling CCT2 with purified ab92746 at 1/24000 dilution (0.012 µg/mL). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

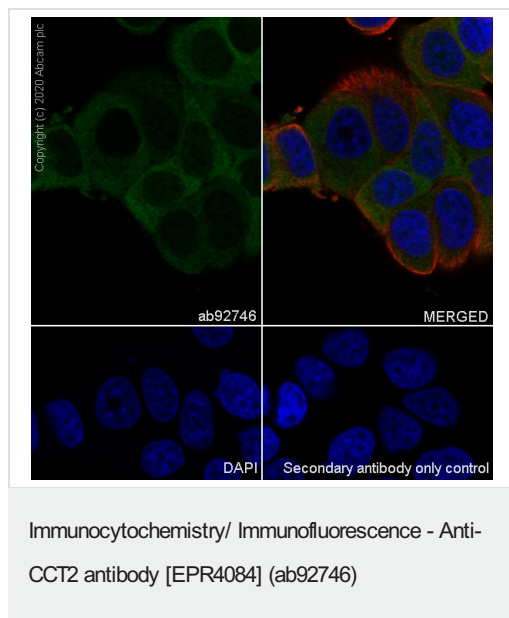
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



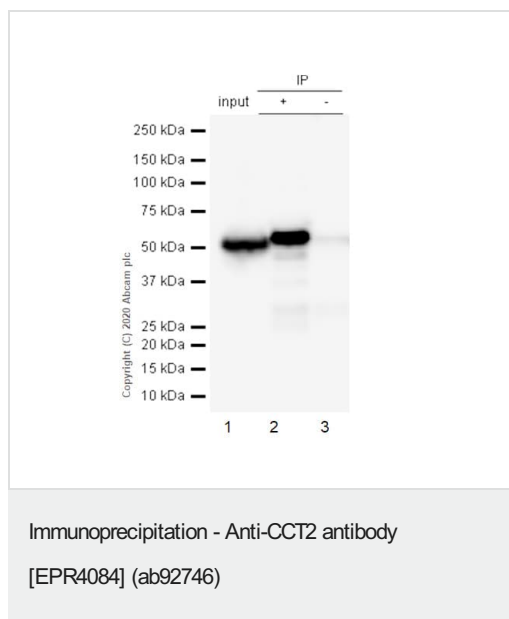
Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells, labeling CCT2 with Purified ab92746 at 1/30 dilution (10µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue sections labeling CCT2 with purified ab92746 at 1/24000 dilution (0.012 µg/mL). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunocytochemistry/Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling CCT2 with Purified ab92746 at 1:500 dilution (0.6 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Purified ab92746 at 1:30 dilution (2µg) immunoprecipitating CCT2 in HeLa whole cell lysate.

Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab92746 + HeLa whole cell lysate.

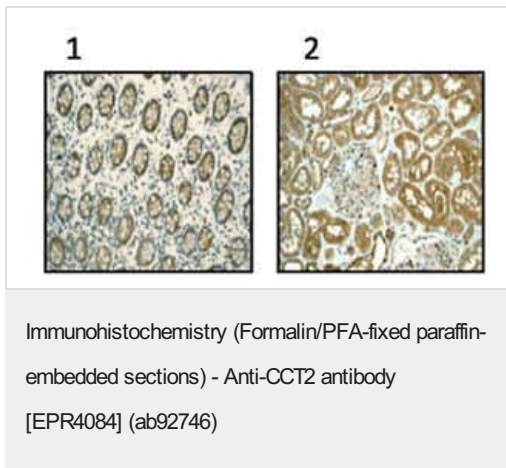
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab92746 in HeLa whole cell lysate.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

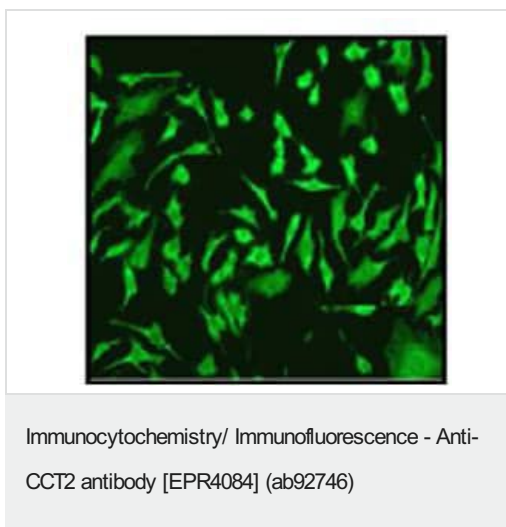
Observed band size: 57 kDa



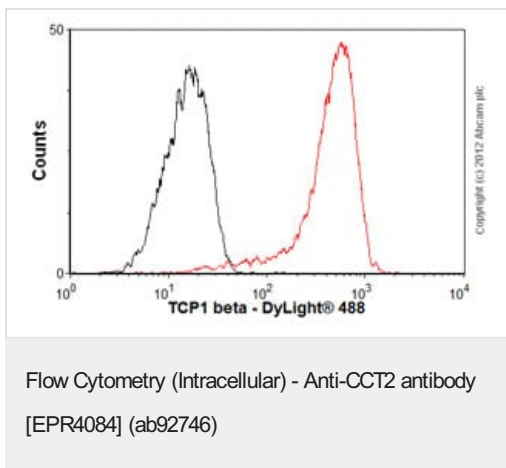


ab92746, unpurified, at a 1/100 dilution, staining CCT2 in formalin fixed, paraffin embedded (1) Human colon tissue and (2) Human kidney tissue by Immunohistochemistry. Detection: DAB staining.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



ab92746, unpurified, at a 1/100 dilution, staining CCT2 in HeLa cells by Immunofluorescence.



Overlay histogram showing HeLa cells stained with ab92746, unpurified, (red line), unpurified. The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab92746, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-CCT2 antibody [EPR4084] (ab92746)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

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- 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

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