

Anti-TCP1 alpha/CCTA antibody [EPR4081] - BSA and Azide free ab247587

Recombinant RabMAb

5 Images

Overview

Product name	Anti-TCP1 alpha/CCTA antibody [EPR4081] - BSA and Azide free
Description	Rabbit monoclonal [EPR4081] to TCP1 alpha/CCTA - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IP, WB, ICC/IF Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, ECV-304, A459 and 293T cell lysates. IHC: Human colon tissue, Human kidney tissue. ICC/IF: HeLa cells. IP: HeLa lysate.
General notes	<p>ab247587 is the carrier-free version of ab92587.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR4081
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247587 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

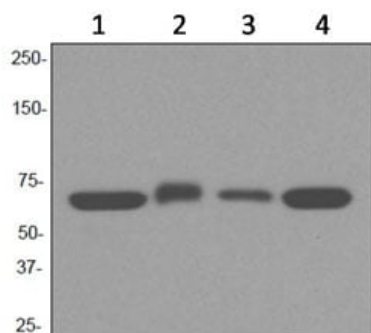
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 60 kDa.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt.

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. Cytoplasm > cytoskeleton > centrosome.

Images



Western blot - Anti-TCP1 alpha/CCTA antibody [EPR4081] - BSA and Azide free (ab247587)

All lanes : Anti-TCP1 alpha/CCTA antibody [EPR4081] ([ab92587](#)) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : ECV-304 cell lysate

Lane 3 : A549 cell lysate

Lane 4 : 293T (Human embryonic kidney epithelial cell) cell lysate

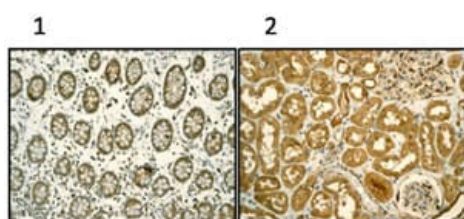
Lysates/proteins at 10 µg per lane.

Secondary

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

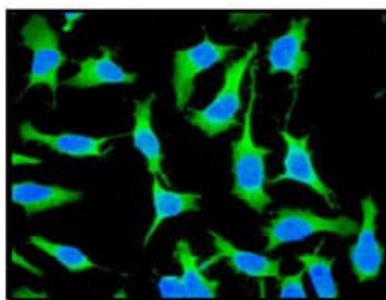
Predicted band size: 60 kDa

This data was developed using [ab92587](#), the same antibody clone in a different buffer formulation.



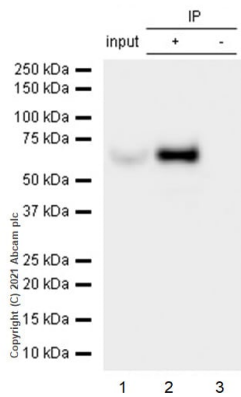
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TCP1 alpha/CCTA antibody [EPR4081] - BSA and Azide free (ab247587)

This data was developed using [ab92587](#), the same antibody clone in a different buffer formulation. [ab92587](#) at 1/100 dilution staining TCP1 alpha/CCTA in (1) Human colon tissue and (2) Human kidney tissue by Immunohistochemistry Formalin-fixed, Paraffin-embedded tissue. Detection: DAB staining. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-TCP1 alpha/CCTA antibody [EPR4081] - BSA and Azide free (ab247587)

This data was developed using [ab92587](#), the same antibody clone in a different buffer formulation. [ab92587](#) at 1/250 dilution staining TCP1 alpha/CCTA in HeLa cells by Immunofluorescence.



Immunoprecipitation - Anti-TCP1 alpha/CCTA antibody [EPR4081] - BSA and Azide free (ab247587)

This data was developed using **ab92587**, the same antibody clone in a different buffer formulation.

TCP1 alpha/CCTA was immunoprecipitated from 0.35 mg HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg with **ab92587** at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.





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

Lane 2: abab92587 IP in HeLa whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab92587** in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Why choose a recombinant antibody?

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

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

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