

Product datasheet

Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free ab248197

Recombinant RabMAb

8 Images

Overview

Product name	Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR7611(B)] to CTBP2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P, WB, Flow Cyt (Intra)
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa and SK-BR-3 cell lysates. Mouse brain and Rat brain tissue lysates. Flow Cyt (Intra): MCF7 cells. ICC/IF: SH-SY5Y cells IHC-P: Rat stomach, Mouse stomach, Human ovarian carcinoma, and Human glioma tissues.
General notes	<p>ab248197 is the carrier-free version of ab128871.</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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7611(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab248197 in the following tested applications.

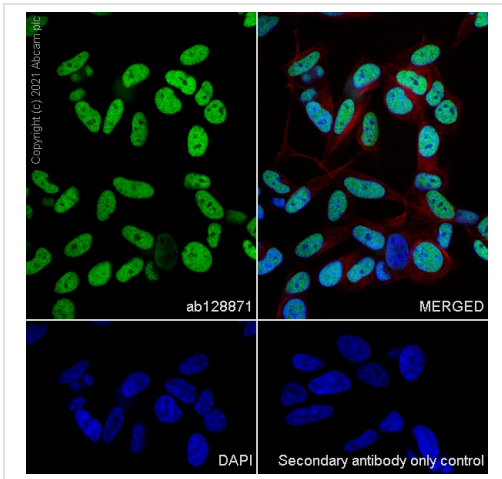
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .
WB		Use at an assay dependent concentration. Detects a band of approximately 49 kDa (predicted molecular weight: 49 kDa).
Flow Cyt (Intra)		Use at an assay dependent concentration.

Target

Function	Corepressor targeting diverse transcription regulators. Functions in brown adipose tissue (BAT) differentiation. Isoform 2 probably acts as a scaffold for specialized synapses.
Tissue specificity	Ubiquitous. Highest levels in heart, skeletal muscle, and pancreas.
Sequence similarities	Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.
Post-translational modifications	Isoform 2 is phosphorylated upon DNA damage, probably by ATM or ATR at Thr-179; Ser-181 and Ser-185. Phosphorylation by HIPK2 on Ser-428 induces proteasomal degradation.
Cellular localization	Nucleus. Cell junction > synapse.

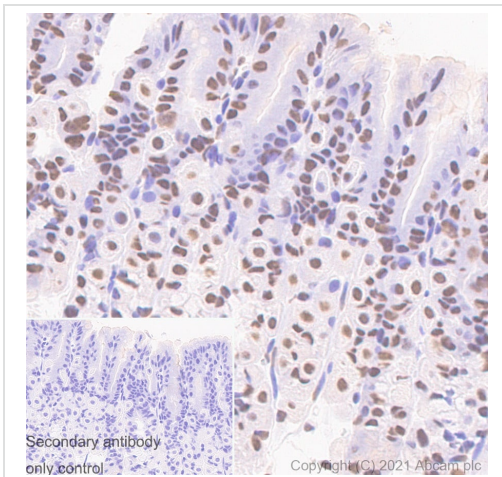
Images



Immunocytochemistry/ Immunofluorescence - Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free (ab248197)

This data was developed using **ab128871**, the same antibody clone in a different buffer formulation.

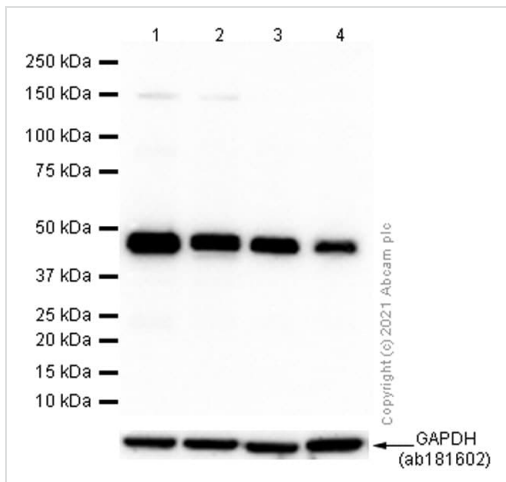
Immunocytochemistry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling CTBP2 with purified **ab128871** at 1:50 dilution (2.5 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (2.5 µg/ml) (**ab195889**) (red). 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 a nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free (ab248197)

This data was developed using **ab128871**, the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse stomach tissue sections labeling CTBP2 with purified **ab128871** at 1:12000 (0.011 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. LeicaDS9800 (Bond™ Polymer Refine Detection) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free (ab248197)

All lanes : Anti-CTBP2 antibody [EPR7611(B)] ([ab128871](#)) at 1/10000 dilution (Purified)

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

Lane 2 : SK-BR-3 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 3 : Mouse brain lysate

Lane 4 : Rat brain lysate

Lysates/proteins at 20 µg per lane.

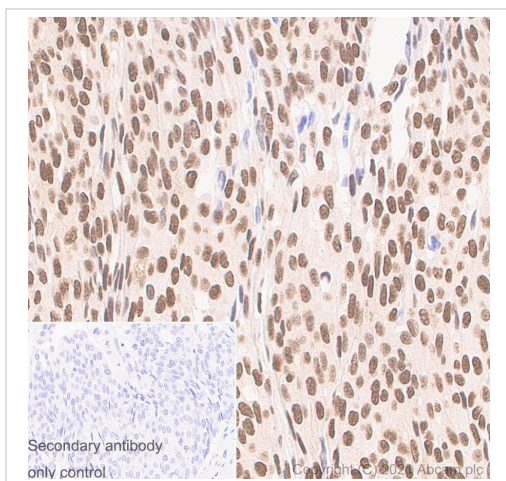
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 49 kDa

Observed band size: 49 kDa

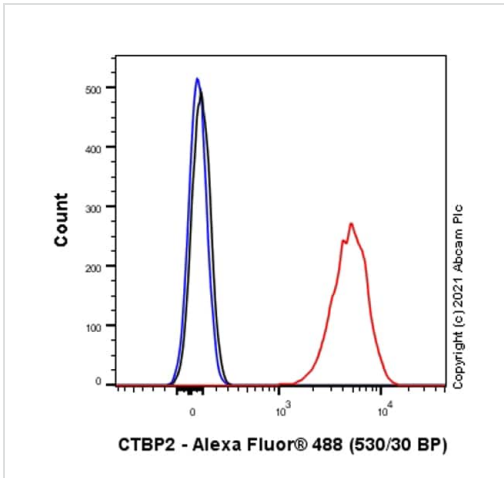
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free (ab248197)

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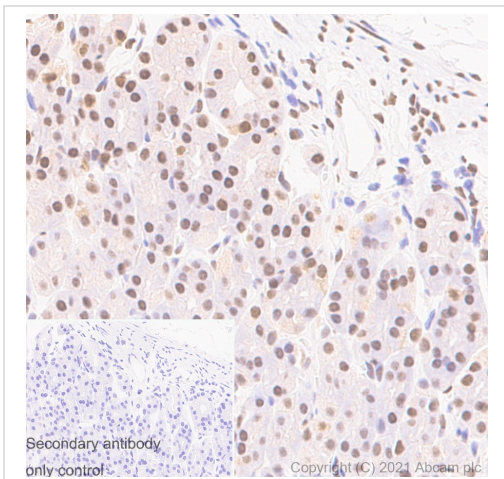
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue sections labeling CTBP2 with purified [ab128871](#) at 1:6000 (0.021 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. LeicaDS9800 (Bond™ Polymer Refine Detection) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Flow Cytometry (Intracellular) - Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free (ab248197)

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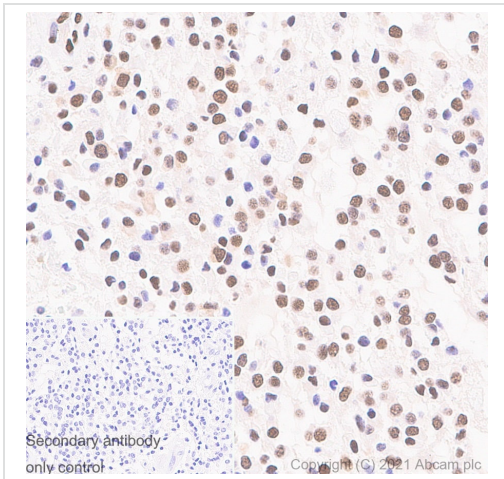
Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labelling CTBP2 with purified [ab128871](#) at 1/20 dilution (5 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150081](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free (ab248197)

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat stomach tissue sections labeling CTBP2 with purified [ab128871](#) at 1:12000 (0.011 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. LeicaDS9800 (Bond™ Polymer Refine Detection) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.




This data was developed using **ab128871**, the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human glioma tissue sections labeling CTBP2 with purified **ab128871** at 1:6000 (0.021 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. LeicaDS9800 (Bond™ Polymer Refine Detection) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTBP2 antibody [EPR7611(B)] - BSA and Azide free (ab248197)

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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