abcam

ab128871

Anti-CTBP2 antibody [EPR7611(B)]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR7611(B)
Purification technique	Affinity purification Protein A
Concentration	0.123 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/6000
Notes	For mouse and rat, use at 1:12000. **For unpurified, use at 1/250 - 1/500.**

	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/6000
Notes	For mouse and rat, use at 1:12000. **For unpurified, use at 1/250 - 1/500.** Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Human
Dilution info	1/6000
Notes	For mouse and rat, use at 1:12000. **For unpurified, use at 1/250 - 1/500.** Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

WB

Tested

Species	Mouse
Dilution info	1/10000 - 1/50000
Notes	-

Species	Rat
Dilution info	1/10000 - 1/50000
Notes	-

Species	Human
Dilution info	1/10000 - 1/50000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50

Notes	**For unpurified use at 1/100 - 1/250.**

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/20
Notes	-

Expected

Species	Mouse
Dilution info	1/20
Notes	-

Species	Rat
Dilution info	1/20
Notes	-

Target data

See full target information CTBP2

Function	Corepressor targeting diverse transcription regulators. Functions in brown adipose tissue (BAT) differentiation (By similarity). Isoform 2 probably acts as a scaffold for specialized synapses.

Storage

Shipped at conditions	Conditional Ambient

Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Stable for 12 months at -20°C

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CTBP2 also known as C-terminal binding protein 2 is a transcriptional co-repressor involved in regulating gene expression. It is a protein with a molecular mass of approximately 48 kDa. CTBP2 is expressed in various tissues with high levels in neural muscular and epithelial cells. Mechanically CTBP2 operates by interacting with transcription factors and histone-modifying enzymes modulating chromatin structure to control access to DNA.
Biological function summary	CTBP2 plays a significant role in cellular processes such as development and differentiation. It frequently acts as part of multi-protein complexes interacting with diverse partners to facilitate transcriptional repression. These interactions are essential for balancing gene activity ensuring appropriate tissue development and function. CTBP2 influences cellular dynamics by regulating target genes implicated in growth survival and metabolic pathways.
Pathways	CTBP2 integrates into significant signaling pathways like Wnt and TGF-beta where it reinforces regulatory control by interacting with critical factors such as beta-catenin or Smad proteins. It collaborates with other proteins like CTBP1 dictating

	cellular responses and influencing pathophysiological processes. By coordinating these pathways CTBP2 supports cellular homeostasis impacting tissues in response to external and internal cues.
Associated diseases and disorders	CTBP2 has associations with cancer and neurodegenerative diseases. Its overexpression or altered activity links to cancer progression as it promotes a transcriptional environment conducive to tumor growth. Proteins such as E-cadherin connect with CTBP2 in metastasis exemplifying its role in cancer cell dissemination. Additionally changes in CTBP2 function relate to neurodegenerative conditions affecting nerve cell survival and synaptic activity pointing to its involvement in neuronal health and disease mechanisms.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

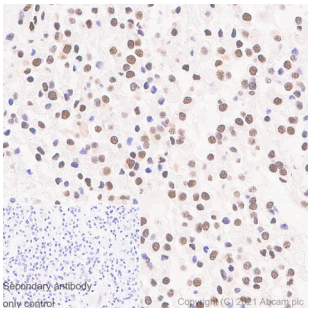
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

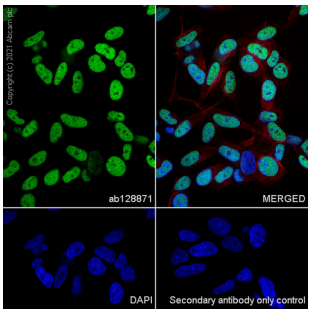
7 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTBP2 antibody [EPR7611(B)] (ab128871)

CTBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CTBP2 antibody

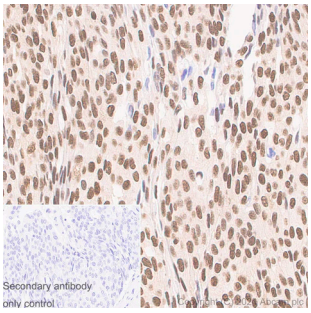
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human glioma tissue sections labeling CTBP2 with purified ab128871 at 1:6000 (0.021 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with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



Immunocytochemistry/ Immunofluorescence - Anti-CTBP2 antibody [EPR7611(B)] (ab128871)

CTBP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CTBP2 antibody

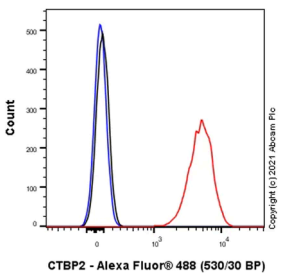
Immunocytochemistry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling CTBP2 with purified ab128871 at 1:50 dilution (2.5 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Anti-alpha Tubulin antibody [DM1A] - 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)] (ab128871)

CTBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CTBP2 antibody

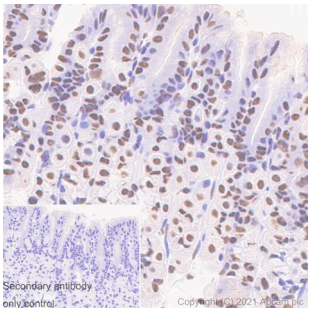
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue sections labeling CTBP2 with purified ab128871 at 1:6000 (0.021 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. LeicaDS9800 (BondTM Polymer Refine Detection) was used. 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)] (ab128871)

CTBP2 Flow Cytometry (Intracellular) staining using rabbit Anti-CTBP2 antibody

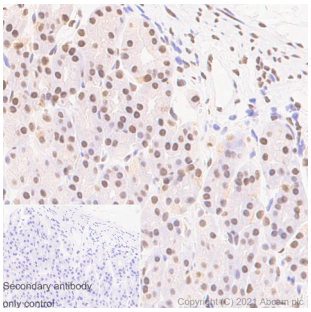
Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labelling CTBP2 with purified ab128871 at 1/20 dilution (5 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150081) secondary antibody 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)] (ab128871)

CTBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CTBP2 antibody

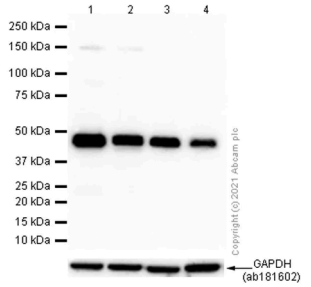
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse stomach tissue sections labeling CTBP2 with purified ab128871 at 1:12000 (0.011 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. LeicaDS9800 (BondTM Polymer Refine Detection) was used. 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)] (ab128871)

CTBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CTBP2 antibody

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 (BondTM Polymer Refine Detection) was used. 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)] (ab128871)

CTBP2 Western blot staining using rabbit Anti-CTBP2 antibody

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

Lane 1:
HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
SK-BR-3 (Human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
Mouse brain lysate at 20 µg

Lane 4:
Rat brain lysate at 20 µg

Secondary

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

Predicted band size: 49 kDa

Observed band size: 49 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.