abcam

ab204663

Alexa Fluor® 647 Anti-CTBP2 antibody [EPR7611(B)]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 647
Excitation/Emission	Ex: 650nm, Em: 665nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% 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	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human

Dilution info	1/200
Notes	This product gave a positive signal in HeLa cells fixed with 4% formaldehyde (10 min) and 100% methanol (5 min).

Expected

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

Flow Cyt (Intra)

Expected

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

IHC-P

Expected

Species	Human, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
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	Blue Ice

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, Store in the dark

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.

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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

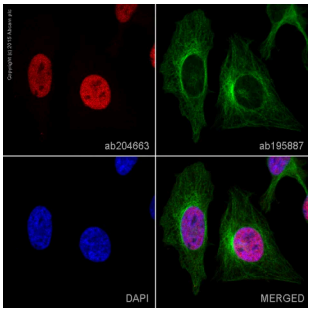
We do not recommend this combination. It is not covered by our product promise.

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.

1 product image



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-CTBP2 antibody [EPR7611(B)] (ab204663)

CTBP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CTBP2 antibody

ab204663 staining CTBP2 in HeLa cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab204663 at 1/200 dilution (shown in red) and ab195887, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in HeLa cells fixed with 100% methanol (5min).

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