

**CTBP1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5095**

**Specification**

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**CTBP1 Antibody (C-term) - Product Information**

Application	IF, WB,E
Primary Accession	<a href="#">O13363</a>
Other Accession	<a href="#">NP_001319.1</a> , <a href="#">NP_001012632.1</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=48,46;M=48,47,40;Rat=47 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**CTBP1 Antibody (C-term) - Additional Information**

**Gene ID** 1487

**Antigen Region**  
413-440

**Other Names**  
CTBP1; CTBP; C-terminal-binding protein 1

**Dilution**  
IF~~1:10~50  
WB~~1:2000

**Target/Specificity**  
This CTBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 413-440 amino acids from the C-terminal region of human CTBP1.

**Format**  
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**  
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**  
CTBP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CTBP1 Antibody (C-term) - Protein Information**

**Name** CTBP1

**Synonyms** CTBP

**Function**

Corepressor targeting diverse transcription regulators such as GLIS2 or BCL6. Has dehydrogenase activity. Involved in controlling the equilibrium between tubular and stacked structures in the Golgi complex. Functions in brown adipose tissue (BAT) differentiation.

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

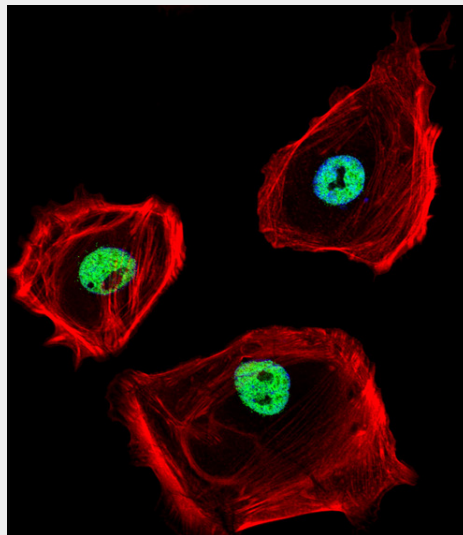
Expressed in germinal center B-cells.

**CTBP1 Antibody (C-term) - Protocols**

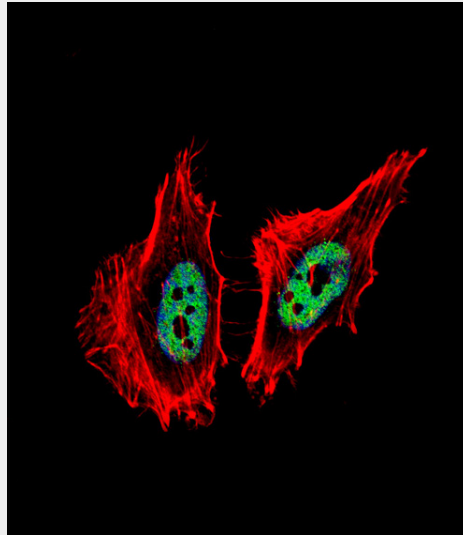
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

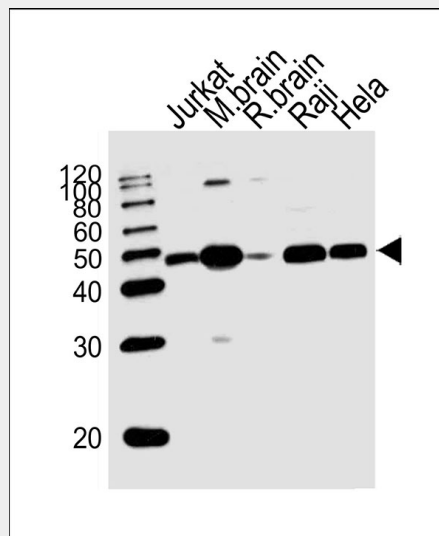
**CTBP1 Antibody (C-term) - Images**



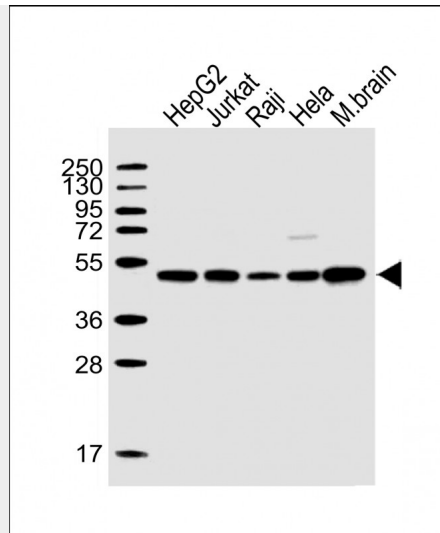
Fluorescent confocal image of SK-BR-3 cell stained with CTBP1 Antibody (C-term)(Cat#AW5095). SK-BR-3 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CTBP1 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). CTBP1 immunoreactivity is localized to nucleus significantly.



Fluorescent confocal image of HeLa cell stained with CTBP1 Antibody (C-term)(Cat#AW5095). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CTBP1 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). CTBP1 immunoreactivity is localized to nucleus significantly.



Western blot analysis of lysates from Jurkat cell line, mouse brain, rat brain tissue lysate, Raji, HeLa cell line (from left to right), using CTBP1 Antibody (C-term)(Cat. #AW5095). AW5095 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



All lanes : Anti-CTBP1 Antibody (C-term) at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: Raji whole cell lysate Lane 4: HeLa whole cell lysate Lane 5: mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

#### **CTBP1 Antibody (C-term) - Background**

This gene encodes a protein that binds to the C-terminus of adenovirus E1A proteins. This phosphoprotein is a transcriptional repressor and may play a role during cellular proliferation. This protein and the product of a second closely related gene, CTBP2, can dimerize. Both proteins can also interact with a polycomb group protein complex which participates in regulation of gene expression during development. Alternative splicing of transcripts from this gene results in multiple transcript variants.

#### **CTBP1 Antibody (C-term) - References**

- Roukens, M.G., et al. *Nat. Cell Biol.* 12(10):933-942(2010)
- Choi, H.J., et al. *Biochem. Biophys. Res. Commun.* 400(3):396-402(2010)
- Merrill, J.C., et al. *J. Mol. Biol.* 398(5):657-671(2010)
- Davila, S., et al. *Genes Immun.* 11(3):232-238(2010)
- Yoshida, T., et al. *Int. J. Mol. Med.* 25(4):649-656(2010)