10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CTBP1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5095

Specification

CTBP1 Antibody (C-term) - Product Information

Application	**IF, WB,E**
Primary Accession	Q13363
Other Accession	NP_001319.1, NP_001012632.1
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

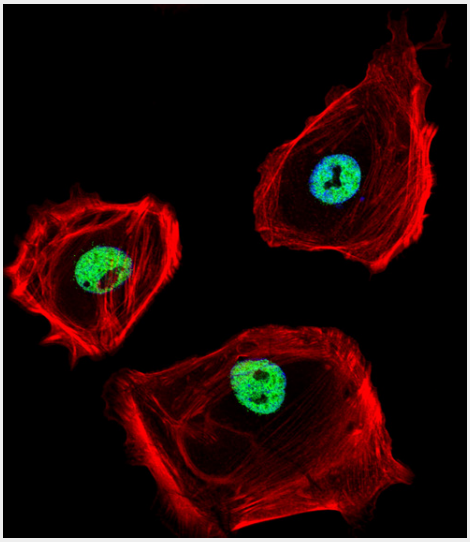
Tissue Location
Expressed in germinal center B-cells.

CTBP1 Antibody (C-term) - Protocols

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

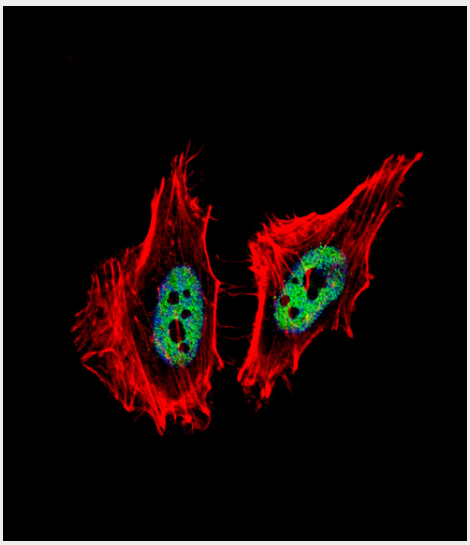
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CTBP1 Antibody (C-term) - Images

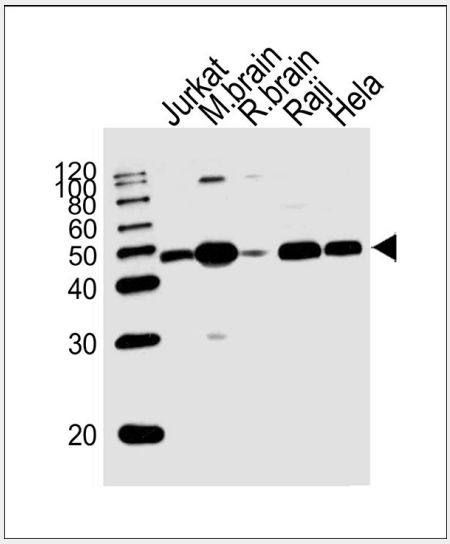


Fluorescent confocal image of SK-BR-3 cell stained with CTBP1 Antibody (C-term)(Cat#AW5095). SK-BR-3 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CTBP1 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

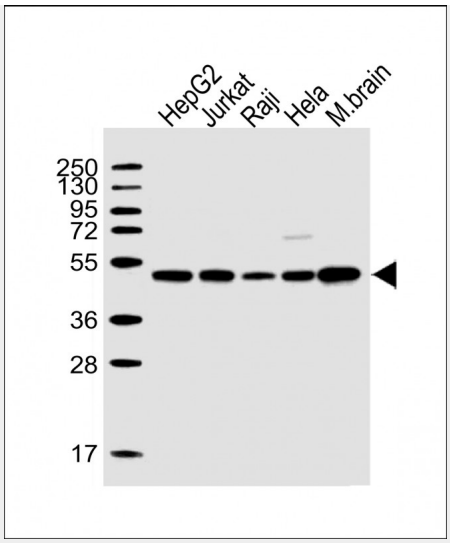


Fluorescent confocal image of Hela cell stained with CTBP1 Antibody (C-term)(Cat#AW5095). Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CTBP1 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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% NFDM/TBST.

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)