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CTBP1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5095

Product Information

Application	IF, WB
Primary Accession	Q13363
Other Accession	NP_001319.1, NP_001012632.1
Reactivity	Mouse, Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47535
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	1487
Antigen Region	413-440
Other Names	CTBP1; CTBP; C-terminal-binding protein 1
Dilution	IF~~1:10~50 WB~~1:1000
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.

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.

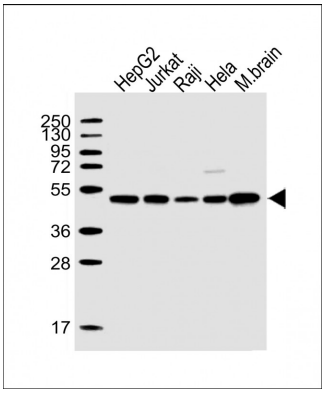
Background

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.

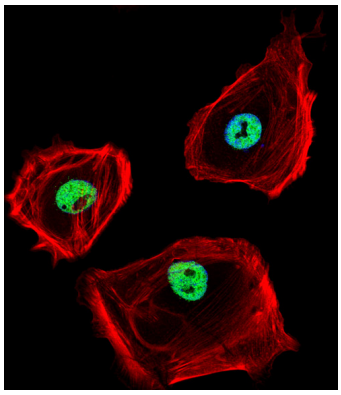
References

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)

Images



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.



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.