

Anti-CtBP1 Picoband Antibody

Catalog # ABO12115

Product Information

Application	WB, IHC-P
Primary Accession	Q13363
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for C-terminal-binding protein 1(CTBP1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1487
Other Names	C-terminal-binding protein 1, CtBP1, 1.1.1.-, CTBP1, CTBP
Calculated MW	47535
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Cytoplasm . Nucleus .
Tissue Specificity	Expressed in germinal center B-cells. .
Source	Eukaryota
Protein Name	C-terminal-binding protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CtBP1 (409-440aa HGLPPVAHPPHAPSPGQTVKPEADRDHASDQL), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After reconstitution, at 4° C for one month. It can also

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

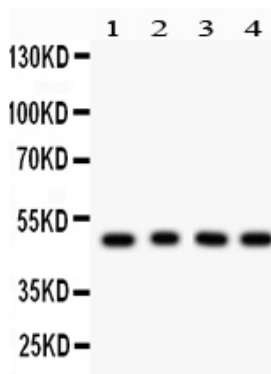
Protein Information

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

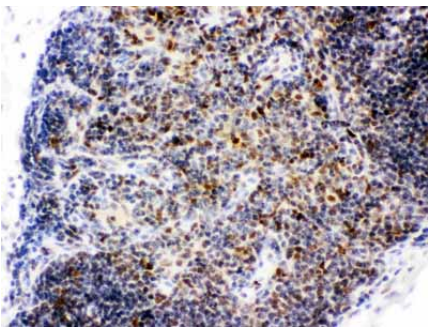
CTBP1, C-terminal-binding protein 1, is a protein that in humans is encoded by the CTBP1 gene. The CtBP1 protein binds to the C-terminus of adenovirus E1A proteins. This gene is mapped to 4p16.This phosphoprotein is a transcriptional repressor (corepressor) and may play a role during cellular proliferation. This protein and the product of a second closely related gene, CTBP2, can dimerize. CtBP1 and CtBP2 preferentially associate with the E1A via a 5 amino acid motif, PLDLS, to repress E1A induced oncogenesis and cellular transformation. CtBP1 is expressed from embryo to adult, but CtBP2 is mainly expressed during embryogenesis. During skeletal and T cell development, CtBP1 and CtBP2 associate with the PLDLSL domain of Δ EF1, a cellular zinc finger-homeodomain protein, and thereby enhances Δ EF1-induced transcriptional silencing. In addition, CtBP complexes with CtIP, a 125 kDa protein that recognizes distinctly different protein motifs from CtBP. CtIP binds to the BRCT repeats within the breast cancer gene BRCA1 and enables CtBP to influence BRCA1 activity. 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.

Images

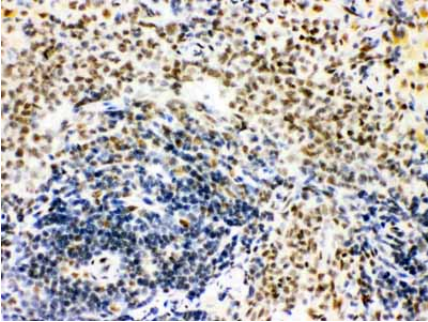


Anti- CTBP1 Picoband antibody, ABO12115, Western blottingAll lanes: Anti CTBP1 (ABO12115) at 0.5ug/mlLane 1: Rat Lung Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 48KDObserved bind size: 48KD

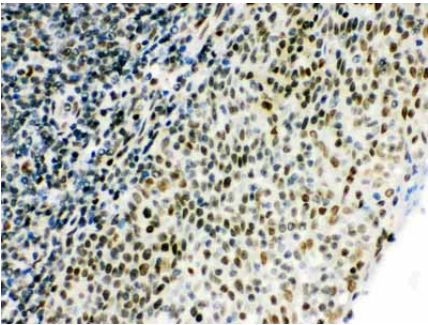
Anti- CTBP1 Picoband antibody, ABO12115, IHC(P)IHC(P): Mouse Thymus Tissue



Anti- CTBP1 Picoband antibody, ABO12115, IHC(P)IHC(P):
Rat Spleen Tissue



Anti- CTBP1 Picoband antibody, ABO12115, IHC(P)IHC(P):
Human Tonsil Tissue



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