CTBP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTBP1, Polyclonal Antibody
Full Product Name	CTBP1, CT (CTBP1, CTBP, C-terminal-binding protein 1) (MaxLight 750)
Product Gene Name	anti-CTBP1 antibody
Product Synonym Names	CTBP1; CTBP; C-terminal-binding protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	46,405 Da
OMIM	602618
3D Structure	ModBase 3D Structure for Q13363
Immunogen	CTBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 412-440 amino acids from the C-terminal region of human CTBP1.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CTBP1 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-CTBP1 antibody	Western Blot (WB), FLISA
Application Notes for anti-CTBP1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CTBP1 antibody	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.
Product References and Citations for anti-CTBP1 antibody	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).

Other Notes	Small volumes of anti-CTBP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTBP1 purchase	MBS6289680 is an antibody targeting CTBP1. Also known as CTBP1, CT (CTBP1, CTBP, C-terminal-binding protein 1) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTBP1. It may not necessarily be applicable to this product.

NCBI GI #	4557497
NCBI GeneID	1487
NCBI Accession #	NP_001319.1
NCBI Related Accession #	NP_001012632.1
UniProt Primary Accession #	Q13363
UniProt Secondary Accession #	Q4W5N3; Q7Z2Q5
UniProt Related Accession #	Q13363
GenBank Nucleotide #	NM_001328.2
NCBI Official Full Name	C-terminal-binding protein 1 isoform 1
NCBI Official Synonym Full Names	C-terminal binding protein 1
NCBI Official Symbol	CTBP1
NCBI Official Synonym Symbols	BARS
UniProt Protein Name	C-terminal-binding protein 1
UniProt Gene Name	CTBP1
UniProt Synonym Gene Names	CTBP; CtBP1
UniProt Entry Name	CTBP1_HUMAN
NCBI Protein Information	C-terminal-binding protein 1; brefeldin A-ribosylated substrate

UniProt Comments for CTBP1	CTBP1: Involved in controlling the equilibrium between tubular and stacked structures in the Golgi complex. Functions in brown adipose tissue (BAT) differentiation. Corepressor targeting diverse transcription regulators such as GLIS2. Has dehydrogenase activity. Homo- or heterodimer. Heterodimer with CTBP2. Interacts with PRDM16; the interaction represses white adipose tissue (WAT)- specific genes expression. Interacts with GLIS2, FOXP2, HDAC4, HDAC5, HDAC9 and ZNF217. Interacts with adenovirus E1A protein (via its C-terminus); the interaction disrupts the interaction of CTBP1 with RBBP8. Interacts with Epstein-Barr virus EBNA3 and EBNA6. Interacts with ELK3 (via its PXDLS motif). Interacts with RBBP8 (via its PXDLS motif); the interaction is disrupted by binding to adenovirus E1A. Interacts with FOXP1, HIPK2, PNN, NRIP1, MECOM, ZNF366, ZFHX1B and WIZ. Interaction with SATB1 (non-acetylated form); the interaction stabilizes its attachment to DNA and promotes transcription repression. Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.1.1.-; Oxidoreductase; Cell cycle regulation; Nuclear receptor co-regulator; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 4p16 Cellular Component: nucleoplasm; transcription factor complex; transcriptional repressor complex; cytosol; nucleus Molecular Function: protein C-terminus binding; protein domain specific binding; protein binding; protein homodimerization activity; transcription factor activity; NAD binding; transcription factor binding; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor Biological Process: negative regulation of cell proliferation; positive regulation of histone deacetylation; transcription, DNA-dependent; regulation of cell cycle; white fat cell differentiation; negative regulation of transcription from RNA polymerase II promoter; viral genome replication; negative regulation of transcription, DNA-dependent; Golgi organization and biogenesis; protein amino acid phosphorylation; negative regulation of histone acetylation Disease: Wolf-hirschhorn Syndrome
Research Articles on CTBP1	**1.** Transactivation of Ctbp was dependent on the histone H3 lysine 9 (H3K9) demethylase activity of LSD1 facilitates subsequent H3K9 acetylation by the NeuroD1-associated histone acetyltransferase, P300/CBP-associated factor.
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