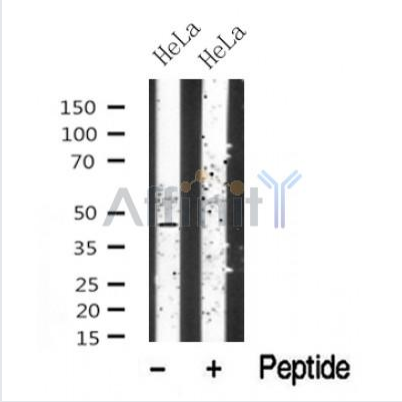
CTBP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTBP1/2, Polyclonal Antibody
Full Product Name	CTBP1/2 Antibody
Product Gene Name	anti-CTBP1 antibody
Product Synonym Names	BARS; brefeldin A-ribosylated substrate; C terminal binding protein 1; C-terminal-binding protein 1; CTBP; CtBP1; CTBP1_HUMAN; MGC104684; C terminal binding protein 2; C-terminal-binding protein 2; CtBP2; CTBP2_HUMAN; ribeye
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	CtBP1/2 antibody detects endogenous levels of CtBP1/2
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	CtBP1/2 peptide (MBS9620688) is used for blocking the activity of CtBP1/2 antibody (MBS9603211)
Molecular Weight	Observed: 48 kD Predicted: 48 kDa
3D Structure	ModBase 3D Structure for Q13363
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human CtBP1/2
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Expressed in germinal center B-cells.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CTBP1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CTBP1 antibody	WB: 1:500-1:2000

Related Product Information for anti-CTBP1 antibody	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. Subunit Structure: 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, ZFHX1B and WIZ. Interacts with ZNF366 (via PXDLS motif) (PubMed:16393996, PubMed:17085477). Interaction with SATB1 (non-acetylated form); the interaction stabilizes its attachment to DNA and promotes transcription repression. Interacts with BCL6; the interaction is required for BCL6 transcriptional autoinhibition and inhibition of some BCL6 target genes. Interacts with IKZF4 (By similarity). Interacts with human adenovirus 5 E1A protein; this interaction seems to potentiate viral replication (PubMed:23747199). Interacts with MCRIP1 (unphosphorylated form, via the PXDLS motif); competitively inhibiting CTBP-ZEB1 interaction (PubMed:25728771). Post-translational Modifications: The level of phosphorylation appears to be regulated during the cell cycle. Phosphorylation by HIPK2 on Ser-422 induces proteasomal degradation. ADP-ribosylated; when cells are exposed to brefeldin A. Sumoylation on Lys-428 is promoted by the E3 SUMO-protein ligase CBX4. Similarity: Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.
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	MBS9603211 is an antibody targeting CTBP1. Also known as CTBP1/2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CTBP1 antibody
Western blot analysis of CtBP1/2 in lysates of HeLa , using CtBP1/2 Antibody(MBS9603211).

ADDITIONAL DETAILS

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

NCBI GI #	61743967
NCBI GeneID	1487
NCBI Accession #	NP_001012632.1
UniProt Primary Accession #	Q13363
UniProt Secondary Accession #	Q4W5N3; Q7Z2Q5
UniProt Related Accession #	Q13363
GenBank Nucleotide #	NM_001012614.1
NCBI Official Full Name	C-terminal-binding protein 1 isoform 2
NCBI Official Synonym Full Names	C-terminal binding protein 1

NCBI Official Symbol	CTBP1
NCBI Official Synonym Symbols	BARS; HADDTS
UniProt Protein Name	C-terminal-binding protein 1
UniProt Gene Name	CTBP1
UniProt Synonym Gene Names	CTBP; CtBP1
NCBI Protein Information	C-terminal-binding protein 1
NCBI Summary for CTBP1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for CTBP1	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.
Research Articles on CTBP1	**1.** F-box only protein 32 (FBXO32) directly ubiquitinates C-terminal binding protein 1 (CtBP1), which is required for its stability and nuclear retention.
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