



Rabbit Anti-phospho-CTBP1 (Ser422) antibody

SL11275R

Product Name:	phospho-CTBP1 (Ser422)
Chinese Name:	磷酸化C端Binding protein1 抗体
Alias:	CTBP1 (phospho Ser422); p-CTBP1 (Ser422); CtBP1 (phospho S422); BARS; C terminal binding protein 1; CTBP; CTBP1; MGC104684; CTBP1_HUMAN; C-terminal-binding protein 1; CtBP1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Danio rerio
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	49kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human CTBP1 around the phosphorylation site of Ser422:AP(p-S)PG
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CtBP1 associates in complexes with histone deacetylases (HDAC), the G9a histone methyltransferase, and LSD1 histone demethylase illustrating its role in transcriptional repression. Through its association with centrosomes, CtBP1 appears to also play a role

in mitosis and Golgi complex organization.

Function:

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.

Subunit:

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 (By similarity). 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, ZFH1B and WIZ. Interaction with SATB1 (non-acetylated form); the interaction stabilizes its attachment to DNA and promotes transcription repression.

Subcellular Location:

Cytoplasm. Nucleus.

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.

SWISS:

Q13363

Gene ID:

1487

Database links:

[Entrez Gene: 1487](#)Human

[Entrez Gene: 13016](#)Mouse

[Entrez Gene: 29382](#)Rat

[Omim: 602618](#)Human

[SwissProt: Q13363](#)Human

[SwissProt: O88712](#)Mouse

[SwissProt: Q9Z2F5](#)Rat

[Unigene: 208597](#)Human

[Unigene: 594321](#)Human

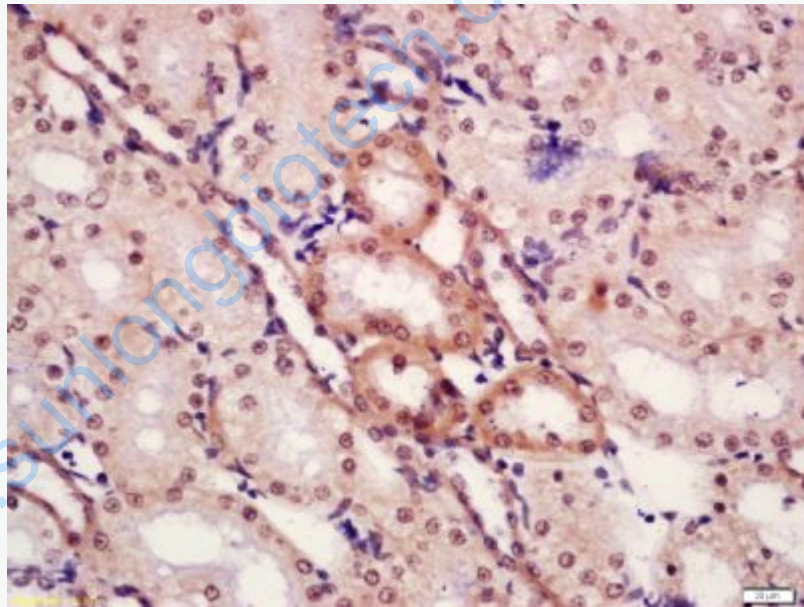
[Unigene: 7286](#)Mouse

[Unigene: 3946](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-phospho-CTBP1(Ser422) Polyclonal Antibody,
Unconjugated(SL11275R) 1:200, overnight at 4°C, followed by conjugation to the

	secondary antibody(SP-0023) and DAB(C-0010) staining
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