



Rabbit Anti-CTBP2 antibody

SL6315R

Product Name:	CTBP2
Chinese Name:	C末端Binding protein2抗体
Alias:	C terminal binding protein 2; C-terminal-binding protein 2; CtBP2; CTBP2_HUMAN; ribeye.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	53kDa
Cellular localization:	The nucleusThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CTBP2:54-140/445
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:	This gene produces alternative transcripts encoding two distinct proteins. One protein is a transcriptional repressor, while the other isoform is a major component of specialized synapses known as synaptic ribbons. Both proteins contain a NAD ⁺ binding domain similar to NAD ⁺ -dependent 2-hydroxyacid dehydrogenases. A portion of the 3' untranslated region was used to map this gene to chromosome 21q21.3; however, it was noted that similar loci elsewhere in the genome are likely. Blast analysis shows that this

gene is present on chromosome 10. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2014].

Function:

Corepressor targeting diverse transcription regulators. Functions in brown adipose tissue (BAT) differentiation.

Isoform 2 probably acts as a scaffold for specialized synapses.

Subunit:

Interacts with the C-terminus of adenovirus E1A protein. Can form homodimers or heterodimers of CTBP1 and CTBP2. Interacts with HIPK2 and ZNF217. Interacts with PRDM16; represses white adipose tissue (WAT)-specific genes expression. Interacts with PNN, NRIP1 and WIZ.

Subcellular Location:

Nucleus. Cell junction, synapse.

Tissue Specificity:

Ubiquitous. Highest levels in heart, skeletal muscle, and pancreas.

Similarity:

Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.

SWISS:

P56545

Gene ID:

1488

Database links:

[Entrez Gene: 281730](#) Cow

[Entrez Gene: 1488](#) Human

[Entrez Gene: 13017](#) Mouse

[Entrez Gene: 81717](#) Rat

[Omim: 602619](#) Human

[SwissProt: Q0VCQ1](#) Cow

[SwissProt: P56545](#) Human

[SwissProt: P56546](#) Mouse

[SwissProt: Q9EQH5](#) Rat

[Unigene: 501345](#) Human

[Unigene: 246240](#) Mouse

[Unigene: 389984](#) Mouse

[Unigene: 138124](#) Rat

Important Note:

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

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