SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CTBP2 antibody

Catalog Number: SL6315R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CTBP2
Immunogen:	KLH conjugated synthetic peptide derived from human CTBP2: 54-140/445
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Cow, Horse, Rabbit)
Predicted MW.:	53kDa
Subcellular Location:	The nucleus The cell membrane
Background:	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.

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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	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, skeletalv muscle, and pancreas. **Similarity:** Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. **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

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