

Rabbit CtBP1/2 Polyclonal Antibody | anti-CtBP1/2 antibody

Phospho-CtBP1/2 (Ser158/Ser164) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31423	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (82%), Bovine (100%), Horse (100%), Dog (100%), Chicken (100%), Xenopus (100%)	Western Blot, Immunohistochemistry, ELISA

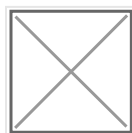
PRODUCT SYNONYMS

CtBP1/2; Polyclonal Antibody; Phospho-CtBP1/2 (Ser158/Ser164) Antibody; 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; anti-CtBP1/2 antibody

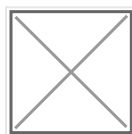
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (82%), Bovine (100%), Horse (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-CtBP1/2 (Ser158/Ser164) Antibody detects endogenous levels of CtBP1/2 only when phosphorylated at Ser158/164. Tissue Specificity: Ubiquitous. Highest levels in heart, skeletal muscle, and pancreas.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CtBP1/2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human CtBP1/2 around the phosphorylation site of Ser158/164.
Conjugation	Unconjugated
Fragment	Fab fragment
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.
Subunit Structure	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 (By similarity). Interacts with PNN, NRIP1 and WIZ. Interacts with MCRIP1. (Microbial infection) Interacts with human adenovirus 5 E1A protein; this interaction seems to potentiate viral replication.
Similarity	Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.
Subcellular Location	Nucleus. Cell junction>Synapse.

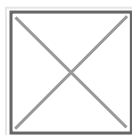
IMAGES

**IHC (Immunohistochemistry)**

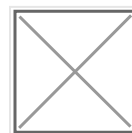
At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

**IHC (Immunohistochemistry)**

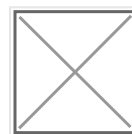
At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

**IHC (Immunohistochemistry)**

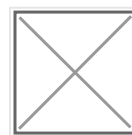
At 1/200 staining Mouse lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

**IHC (Immunohistochemistry)**

At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

**IHC (Immunohistochemistry)**

At 1/200 staining Human tonsil tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

**IHC (Immunohistochemistry)**

Staining Rat heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CtBP1/2 antibody

Corepressor targeting diverse transcription regulators. Functions in brown adipose tissue (BAT) differentiation (By similarity). Isoform 2 probably acts as a scaffold for specialized synapses.

NCBI AND UNIPROT INFORMATION

NCBI GI #	61743967
NCBI GeneID	1487
NCBI Accession #	NP_001012632.1
NCBI GenBank Nucleotide #	NM_001012614.1
UniProt Accession #	Q13363 ; P56545
Molecular Weight	47,535 Da
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
NCBI Protein Information	C-terminal-binding protein 1; brefeldin A-ribosylated substrate
UniProt Protein Name	C-terminal-binding protein 1

UniProt Gene Name	CTBP1
UniProt Synonym Gene Names	CTBP; CtBP1
UniProt Entry Name	CTBP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ctbp1-2-antibody-western-blot-immunohistochemistry-peptide-elisa-elisa/31423>