

Datasheet for ABIN968722
anti-CTBP1 antibody (AA 345-441)[3 Images](#)[4 Publications](#)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	CTBP1
Binding Specificity:	AA 345-441
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CTBP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse CtBP1 aa. 345-441
Clone:	3-CtBP1
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus), Chicken, Dog (Canine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	CTBP1
Alternative Name:	CtBP1 (CTBP1 Products)
Background:	<p>Transcriptional repression is critical for genetic regulation of many cellular proteins, and involves either a transcription regulator that has an intrinsic repressor domain, or a transcription regulator that contains a binding site in the regulatory domain where a corepressor can bind. C-terminal binding proteins (CtBP1 and CtBP2) are a class of corepressors that interact with a subset of transcription factors through a PLDLSL sequence motif. CtBP1 and CtBP2 are 80% homologous, and both are expressed at high levels in embryonic tissues. However, CtBP1 is expressed higher in adult tissues, and is more widely expressed in embryonic and adult tissues. Both CtBP1 and CtBP2 bind the deltaEF1 zinc finger-homeodomain transcription factor, and enhance transcriptional repression via interaction with the PLDLSL-sequence in deltaEF1. CtBP1 and CtBP2 bind other zinc finger transcription factors, including Kheper and BKLf. In addition, CtBP2 interacts with other transcription factors, such as hFOG-2, Evi-1, AREB6, and ZEB. Thus, CtBP1 and CtBP2 may be important corepressors for a variety of transcriptional factors. This antibody is routinely tested by western blot analysis.</p> <p>Synonyms: C-terminal Binding Protein-1</p>
Molecular Weight:	48 kDa
Pathways:	Retinoic Acid Receptor Signaling Pathway

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20°C.
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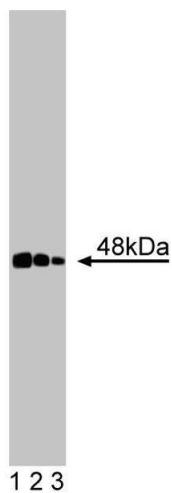
Publications

Product cited in:	Hildebrand, Soriano: "Overlapping and unique roles for C-terminal binding protein 1 (CtBP1) and CtBP2 during mouse development." in: Molecular and cellular biology , Vol. 22, Issue 15, pp. 5296-307, (2002) (PubMed).
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Muraoka, Ichikawa, Shi, Okumura, Taira, Higuchi, Hirano, Hibi, Miki: "Kheper, a novel ZFH/deltaEF1 family member, regulates the development of the neuroectoderm of zebrafish (Danio rerio)." in: **Developmental biology**, Vol. 228, Issue 1, pp. 29-40, (2001) ([PubMed](#)).

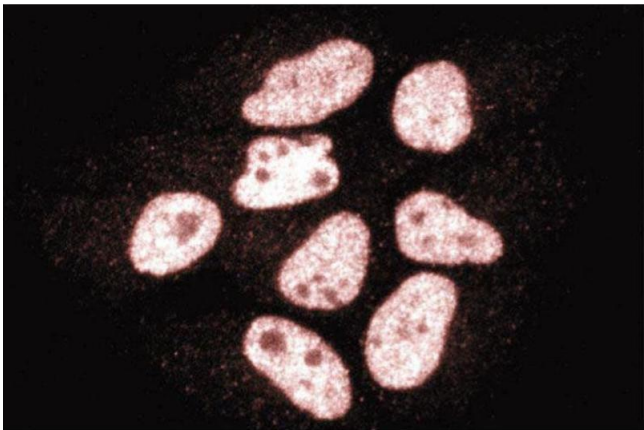
Furusawa, Moribe, Kondoh, Higashi: "Identification of CtBP1 and CtBP2 as corepressors of zinc finger-homeodomain factor deltaEF1." in: **Molecular and cellular biology**, Vol. 19, Issue 12, pp. 8581-90, (2000) ([PubMed](#)).

Schaeper, Boyd, Verma, Uhlmann, Subramanian, Chinnadurai: "Molecular cloning and characterization of a cellular phosphoprotein that interacts with a conserved C-terminal domain of adenovirus E1A involved in negative modulation of oncogenic transformation." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 92, Issue 23, pp. 10467-71, (1995) ([PubMed](#)).



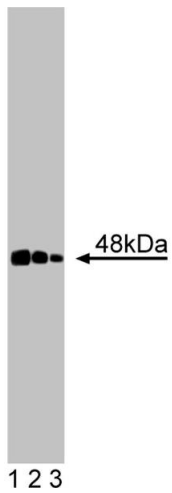
Western Blotting

Image 1. Western blot analysis of CtBP1 on a BC3H1 cell lysate (Mouse brain smooth muscle-like cells, ATCC CRL-1443). Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10,000 dilution of the mouse anti-CtBP1 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma, ATCC CCL-2.2).



Western Blotting

Image 3.