

Human CtBP1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4639

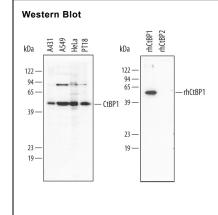
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human and mouse CtBP1 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human CtBP2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human CtBP1 Met1-Leu440 Accession # Q13363
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human CtBP1 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, A549 human lung carcinoma cell line. HeLa human cervical epithelial carcinoma cell line, and PT18 mouse mast/basophil cell line. PVDF membrane was probed with 1 µg/mL Goat Anti-Human CtBP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4639) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). For additional reference, recombinant human CtBP1 and CtBP2 (5 ng/lane) were included. A specific band for CtBP1 was detected at approximately 48 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CtBP1 (C terminal binding protein 1) was originally identified through its binding to the Adenovirus E1A oncoprotein via a 5 amino acid motif, PLDLS, which repressed E1A induced oncogenesis and cellular transformation. In the nucleus, CtBP1 functions predominantly as a transcriptional corepressor in conjunction with a variety of DNA binding repressors. Interaction with Pnn/DRS may modulate repression of E-cadherin by CtBP1. Recruitment of CtBP1 and HDAC to Smad1/Smad4 complexes by Smad6 results in inhibition of BMP stimulated gene expression. The interaction of CtBP1 with polycomb group proteins suggests it is a component of the chromatin remodeling machinery and transcriptional repression. Cytosolic CtBP1 has also been shown to be involved with CNS synapses, membrane trafficking, and regulation of the microtubule cytoskeleton.

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