

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	<i>E. coli</i> -derived recombinant human CtBP1 Met1-Leu440 Accession # Q13363
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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