CtBP2 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 47	Source: Rabbit	UniProt ID: #P56545	Entrez-Gene Id: 1488	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Stor 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity CtBP2 Antibody recognizes endogen with the CtBP1 protein.		zes endogenous le	levels of total CtBP2 protein. This antibody does not cross-react				
Species predicte react based on 10 sequence homological	00%	ine, Dog, Guinea Pi	g				

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CtBP2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CtBP2 (carboxy-terminal binding protein-2) and its homolog CtBP1 are transcriptional co-repressors originally identified as proteins that bind the carboxy-terminus of the human adenovirus E1A protein (1-3). CtBP proteins are thought to play important roles in regulating various developmental pathways because deletion of CtBP2 leads to embryonic lethality at E10.5 and is correlated with axial patterning defects (4). CtBP proteins regulate various oncogenic signaling pathways as promoters of epithelial-mesenchymal transition, apoptosis antagonists, and tumor suppressor genes repressors (1,5). The CtBP protein transcription co-repression activity results from interactions with numerous transcription factors and chromatin modulators, including the polycomb group proteins (1,6,7). Depending on the context, CtBP proteins interact with a short amino acid sequence motif (PXDLS) to mediate repression of target genes through both histone deacetylase-dependent and independent mechanisms (6,8,9). CtBP proteins display a high sequence homology to the bacterial D-isomer-specific 2-hydroxyacid dehydrogenase enzymes. Research studies indicate that nuclear NADH levels regulate CtBP transcription repression activity (6,9-11).

Background References

- 1. Chinnadurai, G. (2009) Cancer Res 69, 731-4.
- 2. Boyd, J.M. et al. (1993) EMBO J 12, 469-78.
- 3. Katsanis, N. and Fisher, E.M. (1998) Genomics 47, 294-9.
- 4. Hildebrand, J.D. and Soriano, P. (2002) Mol Cell Biol 22, 5296-307.
- 5. Battaglia, S. et al. (2010) Int J Cancer 126, 2511-9.
- 6. Chinnadurai, G. (2002) Mol Cell 9, 213-24.
- 7. Sewalt, R.G. et al. (1999) *Mol Cell Biol* 19, 777-87. 8. Molloy, D.P. et al. (1998) *J Biol Chem* 273, 20867-76.
- 9. Schaeper, U. et al. (1995) *Proc Natl Acad Sci U S A* 92, 10467-71.
- 10. Kumar, V. et al. (2002) Mol Cell 10, 857-69.
- 11. Thio, S.S. et al. (2004) Nucleic Acids Res 32, 1836-47.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

1/1/24. 10:12 AM

Applications Key

Cross-Reactivity Key

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Patents

CtBP2 Antibody (#13256) Datasheet Without Images Cell Signaling Technology

WB: Western Blotting IP: Immunoprecipitation

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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