384 Store at -20C

CtBP1 (D2D6) Rabbit mAb



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Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 47	Source/Isotype: Rabbit IgG	UniProt ID: #Q13363	Entrez-Gene Id: 1487
Product Usage Information	Aį	plication				Dilution
	W	estern Blotting				1:1000
	Im	munoprecipitation				1:100
	Im	munohistochemistry	(Paraffin)			1:100
	Im	munofluorescence (Immunocytochen	nistry)		1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensiti	CtBP1 (D2D6) Rabbit mAb recognizes endogenous levels of total CtBP1 protein.					
Source / Purification	• •	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CtBP1 protein.				
Background	terr (1). inte it a ran PR rep also ope via	CtBP1 (C-terminal binding protein 1) was first recognized as a cellular factor that interacts with the C-terminal portion of adenovirus E1A, a protein involved in the transcriptional regulation of key cellular genes (1). CtBP1 is able to regulate gene activity through its intrinsic dehydrogenase activity (2,3) and by interacting with Polycomb Group (PcG) proteins during development (4). Along with its homologue, CtBP2, it acts as a transcriptional corepressor of zinc-finger homeodomain factor deltaEF1 to regulate a wide range of cellular processes through transrepression mechanisms (5). Through its direct interaction with PRDM16, CtBP1 has been shown to be involved in brown adipose tissue differentiation by mediating the repression of white fat genes and directing differentiation toward the brown fat gene program (6). CtBP1 also plays a role in lipid metabolic pathways and membrane fission by regulating the fission machinery operating Golgi tubular networks (7). CtBP1 has recently been shown to repress transcription of BRCA1 via a redox regulated mechanism (8). Furthermore, it is thought that downregulation of BRCA1 and E-cadherin in invasive ductal breast carcinoma correlates directly with activation of CtBP1 (9).				
Background Refere	2. E 3. H 4. S 5. F 6. H 7. C 8. E	 Schaeper, U. et al. (1995) Proc Natl Acad Sci USA 92, 10467-71. Balasubramanian, P. et al. (2003) FEBS Lett 537, 157-60. Kumar, V. et al. (2002) Mol Cell 10, 857-69. Sewalt, R.G. et al. (1999) Mol Cell Biol 19, 777-87. Furusawa, T. et al. (1999) Mol Cell Biol 19, 8581-90. Kajimura, S. et al. (2008) Genes Dev 22, 1397-409. Cassens, U. et al. (1999) Transfus Med 9, 311-20. Deng, Y. et al. (2010) Oncogene 29, 6603-8. Deng, Y. et al. (2011) Mol Carcinog, Epub ahead of print. 				

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.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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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Limited Uses

CtBP1 (D2D6) Rabbit mAb (#8684) Datasheet Without Images Cell Signaling Technology

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