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#14910**BRD7 (D9K2T) Rabbit mAb (ChIP Formulated)**

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
ChIP, ChIP-seq	H	Endogenous	Rabbit IgG	#Q9NPI1	29117

**Product Usage Information**

For optimal ChIP and ChIP-seq results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10<sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

**Application**

Chromatin IP  
Chromatin IP-seq

**Dilution**

1:50  
1:50

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

BRD7 (D9K2T) Rabbit mAb (ChIP Formulated) recognizes endogenous levels of total BRD7 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human BRD7 protein.

**Background**

Bromodomain-containing protein 7 (BRD7, BP75, CELTIX-1) is a conserved bromodomain-containing protein that was first identified in a screen for proteins that interact with the PDZ domain of PSD95 (1). Subsequent studies identified BRD7 as a major component of SWI/SNF chromatin remodeling complexes, where it was shown to interact directly with acetylated histones to regulate gene transcription (2,3). BRD7 also interacts with p53, and was shown to participate directly in p53-dependent transcriptional regulation (4). Loss-of-function BRD7 mutations were identified in a subset of wild-type p53 breast cancer tumor samples, implicating BRD7 as a putative tumor-suppressor of potential clinical significance (5). BRD7 also associates with the BRCA1 protein, an interaction that facilitates recruitment of BRCA1 to the ERα gene promoter (6).

**Background References**

1. Cuppen, E. et al. (1999) *FEBS Lett* 459, 291-8.
2. Peng, C. et al. (2006) *J Cell Biochem* 97, 882-92.
3. Kaeser, M.D. et al. (2008) *J Biol Chem* 283, 32254-63.
4. Burrows, A.E. et al. (2010) *Proc Natl Acad Sci U S A* 107, 14280-5.
5. Drost, J. et al. (2010) *Nat Cell Biol* 12, 380-9.
6. Harte, M.T. et al. (2010) *Cancer Res* 70, 2538-47.

**Species Reactivity**

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

**Applications Key**

**ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq

**Cross-Reactivity Key**

**H:** Human

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