

#15125 Store at -20C

## BRD7 (D9K2T) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H	Endogenous	85	Rabbit IgG	#Q9NPI1	29117

### Product Usage Information

#### Application

Western Blotting  
Immunohistochemistry (Paraffin)

#### Dilution

1:1000  
1:800

### 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) 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).

### 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 **IHC-P:** Immunohistochemistry (Paraffin)

### 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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