10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BRD7 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13451a

Specification

BRD7 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9NPI1
Other Accession	NP_001167455.1, NP_037395.2
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**74139**
Antigen Region	**77-106**

BRD7 Antibody (N-term) - Additional Information

Gene ID 29117

Other Names
Bromodomain-containing protein 7, 75 kDa bromodomain protein, Protein CELTIX-1, BRD7, BP75, CELTIX1

Target/Specificity
This BRD7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 77-106 amino acids from the N-terminal region of human BRD7.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
BRD7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

BRD7 Antibody (N-term) - Protein Information

Name BRD7

Synonyms BP75, CELTIX1

Function Acts both as coactivator and as corepressor. May play a role in chromatin remodeling. Activator of the Wnt signaling pathway in a DVL1-dependent manner by negatively regulating the GSK3B phosphotransferase activity. Induces dephosphorylation of GSK3B at 'Tyr-216'. Down-regulates TRIM24-mediated activation of transcriptional activation by AR (By similarity). Transcriptional corepressor that down-regulates the expression of target genes. Binds to target promoters, leading to increased histone H3 acetylation at 'Lys-9' (H3K9ac). Binds to the ESR1 promoter. Recruits BRCA1 and POU2F1 to the ESR1 promoter. Coactivator for TP53-mediated activation of transcription of a set of target genes. Required for TP53-mediated cell-cycle arrest in response to oncogene activation. Promotes acetylation of TP53 at 'Lys-382', and thereby promotes efficient recruitment of TP53 to target promoters. Inhibits cell cycle progression from G1 to S phase.

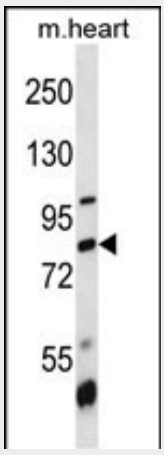
Cellular Location
Nucleus. Chromosome

BRD7 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BRD7 Antibody (N-term) - Images



BRD7 Antibody (N-term) (Cat. #AP13451a) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the BRD7 antibody detected the BRD7 protein (arrow).

BRD7 Antibody (N-term) - Background

This gene encodes a protein which is a member of the bromodomain-containing protein family. The product of this gene has been identified as a component of one form of the SWI/SNF chromatin

remodeling complex, and as a protein which interacts with p53 and is required for p53-dependent oncogene-induced senescence which prevents tumor growth. Pseudogenes have been described on chromosomes 2, 3, 6, 13 and 14. Alternative splicing results in multiple transcript variants.

BRD7 Antibody (N-term) - References

Burrows, A.E., et al. Proc. Natl. Acad. Sci. U.S.A. 107(32):14280-14285(2010)
Drost, J., et al. Nat. Cell Biol. 12(4):380-389(2010)
Kikuchi, M., et al. Biochim. Biophys. Acta 1793(12):1828-1836(2009)
Kaeser, M.D., et al. J. Biol. Chem. 283(47):32254-32263(2008)
Liu, H., et al. BMC Mol. Biol. 9, 111 (2008) :