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

BRD7 Rabbit pAb

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Catalog # AP58751

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NPI1
Reactivity	Human, Mouse, Rat
Predicted	Dog, Pig, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74139
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BRD7
Epitope Specificity	401-500/651
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 2: Nucleus.
SIMILARITY	Contains 1 bromo domain.
SUBUNIT	Interacts with TRIM24, PTPN13 and DVL1. Identified in a complex with SMARCA4/BRG1, SMARCC1/BAF155, SMARCE1/BAF57, DPF2/BAF45D and ARID2, subunits of the SWI/SNF-B (PBAF) chromatin remodeling complex (By similarity). Interacts with IRF2 and HNRPUL1. Interacts (via N-terminus) with TP53. Interacts (via C-terminus) with EP300. Interacts with BRCA1. Interacts (via bromo domain) with histone H3 (via N-terminus) acetylated at 'Lys-14' (H3K14ac). Has low affinity for histone H3 acetylated at 'Lys-9' (H3K9ac). Has the highest affinity for histone H3 that is acetylated both at 'Lys-9' (H3K9ac) and at 'Lys-14' (H3K14ac). Has very low affinity for non-acetylated histone H3. Interacts (via bromo domain) with histone H4 (via N-terminus) acetylated at 'Lys-8' (H3K8ac) (in vitro).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	29117
Other Names	Bromodomain-containing protein 7, 75 kDa bromodomain protein, Protein

	CELTIX-1, BRD7, BP75, CELTIX1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

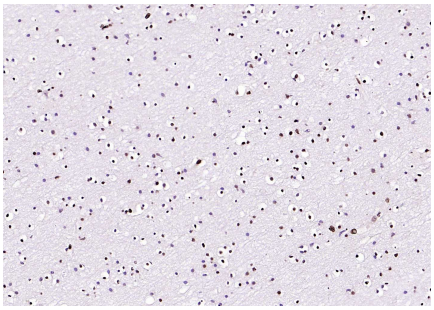
Protein Information

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

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.

Images



Paraformaldehyde-fixed, paraffin embedded (Human left parietal lobe); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (BRD7) Polyclonal Antibody, Unconjugated (AP58751) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.