



Rabbit Anti-BRD7 antibody

SL7779R

Product Name:	BRD7
Chinese Name:	鼻咽癌相关转录调节蛋白抗体
Alias:	75 kDa bromodomain protein; BP75; BRD 7; BRD7; BRD7_HUMAN; Bromodomain containing 7; bromodomain containing protein 7; Bromodomain-containing protein 7; CELTIX 1; CELTIX1; NAG4; Protein CELTIX-1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	74kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BRD7:401-500/651
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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.

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).

Subcellular Location:

Isoform 2: Nucleus.

Similarity:

Contains 1 bromo domain.

SWISS:

Q9NPI1

Gene ID:

29117

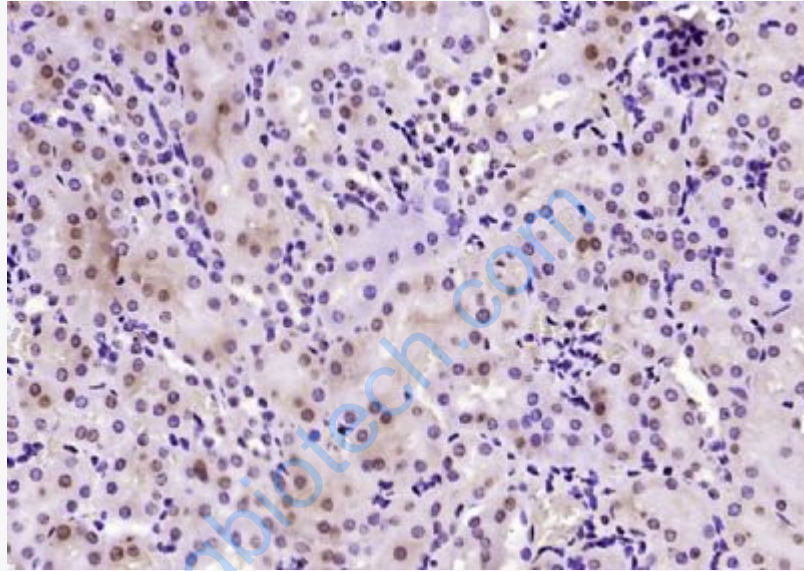
Database links:

UniProtKB/Swiss-Prot: Q9NPI1.1

Important Note:

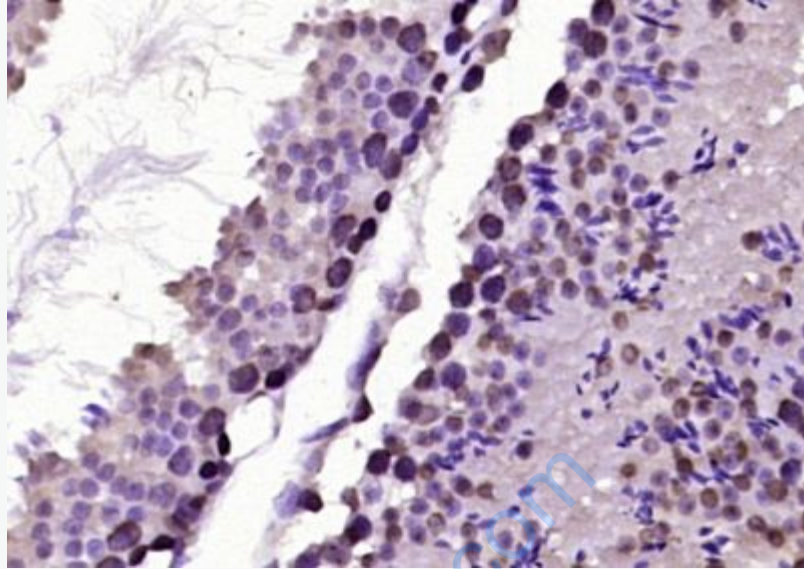
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BRD7可能参与了基因转录调控,是一个核转录调节蛋白。经研究发现BRD7可能是通过Ras/MEK/ERK和Rb/E2F两条通路影响细胞周期的进程,使细胞停滞于G0/G1期, BRD7具有阻止细胞周期进程的作用。BRD7蛋白尤其是在鼻咽癌的发病过程中发挥了十分重要作用, BRD7基因的过表达可通过调节MAPK及Wnt信号通路抑制鼻咽癌的生长, 并将鼻咽癌阻滞在G1/S期。

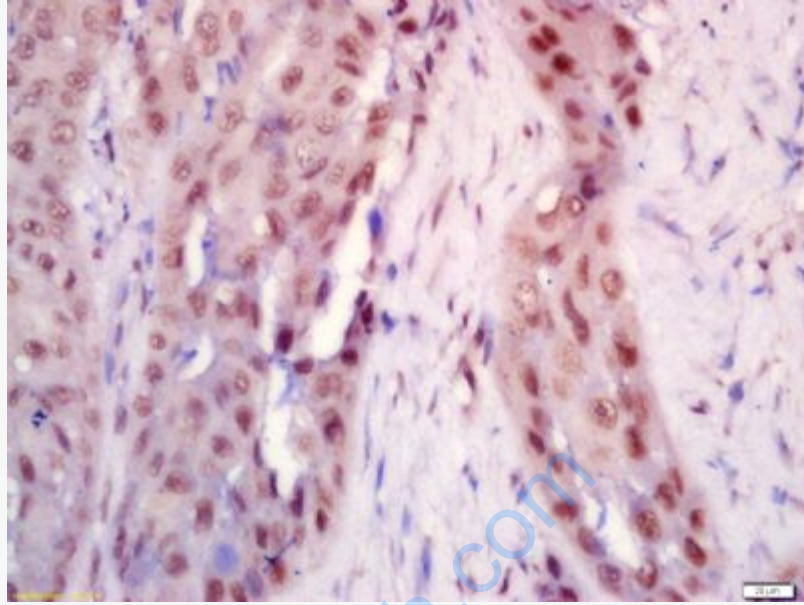


Picture:

Paraformaldehyde-fixed, paraffin embedded (mouse kidney tissue); 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; Antibody incubation with (BRD7) Polyclonal Antibody, Unconjugated (SL7779R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



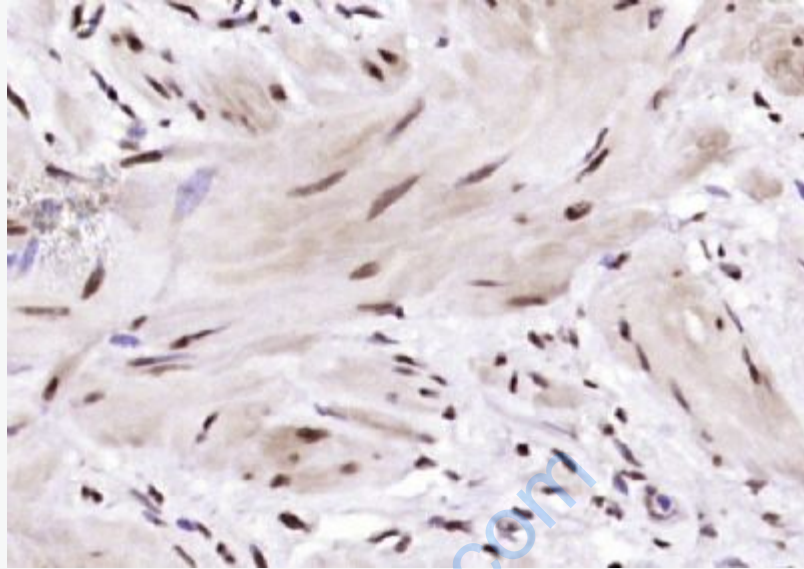
Paraformaldehyde-fixed, paraffin embedded (mouse testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BRD7) Polyclonal Antibody, Unconjugated (SL7779R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: human laryngeal cancer tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-BRD7 Polyclonal Antibody, Unconjugated(SL7779R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); 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; Antibody incubation with (BRD7) Polyclonal Antibody, Unconjugated (SL7779R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining. overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining