

产品名称: Brd4 (2D15) Rabbit Monoclonal Antibody
产品货号: AMRe07650



产品概述 (Summary)

产品名称 (Production Name)	Brd4 (2D15) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,FC,IP
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	BRD4
别名 (Alternative Names)	Brd4; CAP; HUNK1; MCAP; Bromodomain containing 4; chromosome associated protein;
基因 ID (Gene ID)	23476.0
蛋白 ID (SwissProt ID)	O60885.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:200,ICC/IF 1:100-1:200,FC 1:20-1:50,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	152kDa

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研究背景 (Background)

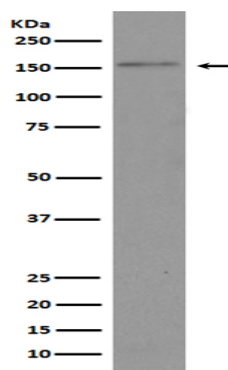
Bromodomain-containing protein 4 (BRD4) is a member of the bromodomains and extra terminal (BET) family of proteins, which also includes BRD2, BRD3, and BRDT. BET family proteins contain two tandem bromodomains and an extra terminal (ET) domain, and bind acetyl lysine residues. BRD4 is a chromatin-binding protein with a preference for Lys14 on histone H3 as well as Lys5 and Lys12 on histone H4. BRD4 chromatin binding occurs throughout the cell cycle, including condensed mitotic chromosomes, when the majority of genes are silenced. Chromatin reader protein that recognizes and binds acetylated histones and plays a key role in transmission of epigenetic memory across cell divisions and transcription regulation. Remains associated with acetylated chromatin throughout the entire cell cycle and provides epigenetic memory for postmitotic G1 gene transcription by preserving acetylated chromatin status and maintaining high-order chromatin structure (PubMed: [23589332](http://www.uniprot.org/citations/23589332), PubMed: [23317504](http://www.uniprot.org/citations/23317504), PubMed: [22334664](http://www.uniprot.org/citations/22334664)). During interphase, plays a key role in regulating the transcription of signal- inducible genes by associating with the P-TEFb complex and recruiting it to promoters. Also recruits P-TEFb complex to distal enhancers, so called anti-pause enhancers in collaboration with JMJD6. BRD4 and JMJD6 are required to form the transcriptionally active P-TEFb complex by displacing negative regulators such as HEXIM1 and 7SKsnRNA complex from P-TEFb, thereby transforming it into an active form that can then phosphorylate the C-terminal domain (CTD) of RNA polymerase II (PubMed: [23589332](http://www.uniprot.org/citations/23589332), PubMed: [19596240](http://www.uniprot.org/citations/19596240), PubMed: [16109377](http://www.uniprot.org/citations/16109377), PubMed: [16109376](http://www.uniprot.org/citations/16109376), PubMed: [24360279](http://www.uniprot.org/citations/24360279)). Promotes phosphorylation of 'Ser-2' of the C-terminal domain (CTD) of RNA polymerase II (PubMed: [23086925](http://www.uniprot.org/citations/23086925)). According to a report, directly acts as an atypical protein kinase and mediates phosphorylation of 'Ser-2' of the C-terminal domain (CTD) of RNA polymerase II; these data however need additional evidences in vivo (PubMed: [22509028](http://www.uniprot.org/citations/22509028)). In addition to acetylated histones, also recognizes and binds acetylated RELA, leading to further recruitment of the P-TEFb complex and subsequent activation of NF-kappa-B (PubMed: [19103749](http://www.uniprot.org/citations/19103749)). Also acts as a regulator of p53/TP53-mediated transcription: following phosphorylation by CK2, recruited to p53/TP53 specific target promoters (PubMed: [23317504](http://www.uniprot.org/citations/23317504)).

研究领域 (Research Area)

Epigenetics and Nuclear Signaling

图片 (Image Data)

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Western blot analysis of Brd4 expression in HeLa cell lysate.

注意事项 (Note)

For research use only .