HDAC1(phospho Ser421) Rabbit Polyclonal Antibody

产品详情

产品货号	产品名称	储存条件	保质期
IM51108	HDAC1(phospho Ser421)Rabbit Polyclonal Antibody	-20℃	1 年

产品概述：

产品货号	IM51108
别名	HDAC1;RPD3L1;Histone deacetylase 1;HD1
产品名称	HDAC1(phospho Ser421)Rabbit Polyclonal Antibody
类别	抗体产品
基因名称	HDAC1
蛋白名称	Histone deacetylase 1
Clonality	Polyclonal
推荐应用	WB,IHC-P,IF-P,IF-F,IF-ICC,ELISA
反应种属	Human,Mouse,Rat
浓度	1mg/ml
存储缓冲液	Liquid in PBS containing 50% glycerol,0.5% BSA and 0.02% New type preservative N.
Human Gene ID	3065
Human Swissprot No.	Q13547

Mouse Gene ID	433759
Mouse Swissprot No.	O09106
Rat Gene ID	297893
Rat Swissprot No.	Q4QQW4
免疫原	The antiserum was produced against synthesized peptide derived from human HDAC1 around the phosphorylation site of Ser421.AA range:387-436
特异性	Phospho-HDAC1(S421)Polyclonal Antibody detects endogenous levels of HDAC1 protein only when phosphorylated at S421.
稀释度	WB 1:500-1:2000,IHC-P 1:100-1:300,ELISA 1:5000,IF-P/IF-F/IF-ICC 1:50-200
预测分子量	62kDa
宿主	Rabbit
同种型	Rabbit,IgG
背景介绍	Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2,it deacetylates p53 and modulatesits effect on cell growth and apoptosis. [provided by RefSeq,Jul 2008].

组织表达	Ubiquitous,with higher levels in heart,pancreas and testis,and lower levels in kidney and brain.
细胞定位	Nucleus.
信号通路	Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;Protein_Acetylation
功能	Catalytic activity:Hydrolysis of an N(6)-acetyl-lysine residue of a histone to yield a deacetylated histone.function:Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones(H2A,H2B,H3 and H4).Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation,cell cycle progression and developmental events.Histone deacetylases act via the formation of large multiprotein complexes.PTM:Phosphorylation on Ser-421 and Ser-423 promotes enzymatic activity and interactions with NuRD and SIN3 complexes.PTM:Sumoylated on Lys-444 and Lys-476;which promotes enzymatic activity.Desumoylated by SENP1.similarity:Belongs to the histone deacetylase family.Type 1 subfamily.subunit:Part of the core histone deacetylase(HDAC)complex composed of HDAC1,HDAC2,RBBP4 and RBBP7.The core complex associates with MTA2,MBD2,MBD3,MTA1L1,CHD3 and CHD4 to form the nucleosome remodeling and histone deacetylation (NuRD)complex,or with SIN3,SAP18 and SAP30 to form the SIN3 HDAC complex.Component of a BHC histone deacetylase complex that contains HDAC1,HDAC2,HMG20B/BRAF35,AOF2/LSD1,RCOR1/CoREST and PHF21A/ BHC80.The BHC complex may also contain ZMYM2,ZNF217,ZMYM3, GSE1 and GTF2I.Associates with the 9-1-1 complex;interacts with HUS1.Found in a complex with DNMT3A and HDAC7.Interacts with BCOR,BRMS1L,DAXX,DNMT1,EP300,HCFC1,NFE4,PCAF,PHB2,MIER1,KDM4A,MI NT,NRIP1,PRDM6, RERE,SETDB1,SUV39H1,TGIF,TGIF2,UHRF1,UHRF2 and

功能	ZNF541. Interacts with the non-histone region of H2AFY. Interacts with HDAC9. Component of a mSin3A corepressor complex that contains SIN3A, SAP130, SUDS3/SAP45, ARID4B/SAP180, HDAC1 and HDAC2. Interacts with BANP, CBFA2T3 and KDM5B. Interacts with SAP30L. Interacts with E4F1. Interacts with KFL1(By similarity). Interacts with SV40 large T antigen. tissue specificity:Ubiquitous, with higher levels in heart, pancreas and testis, and lower levels in kidney and brain.
纯化	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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