## HDAC1 (Phospho-Ser421) Antibody

Catalog No: #12037

Package Size: #12037-1 50ul #12037-2 100ul



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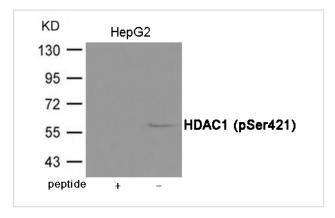
Product Name	HDAC1 (Phospho-Ser421) Antibody		
Host Species	Rabbit		
Clonality	Polyclonal		
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.		
	Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho		
	specific antibodies were removed by chromatogramphy using non-phosphopeptide.		
Applications	WB		
Species Reactivity	Hu		
Specificity	The antibody detects endogenous level of HDAC1 only when phosphorylated at Serine 421.		
Immunogen Type	Peptide-KLH		
Immunogen Description	Peptide sequence around phosphorylation site of Serine 421		
	(E-F-S(p)-D-S) derived from Human HDAC1.		
Target Name	HDAC1		
Modification	Phospho		
Other Names	HD1, RPD3, GON-10, RPD3L1		
Accession No.	Swiss-Prot#: Q13547; NCBI Gene#: 3065; NCBI Protein#: NP_004955.2		
SDS-PAGE MW	62kd		
Concentration	1.0mg/ml		
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%		
	sodium azide and 50% glycerol.		
Storage	Store at -20°C/1 year		

## **Application Details**

Predicted MW: 62kd

Western blotting: 1:500~1:1000

## **Images**



Western blot analysis of extracts from HepG2 cells using HDAC1 (Phospho-Ser421) Antibody #12037.The lane on the left is treated with the antigen-specific peptide.

## Background

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. Deacetylates SP proteins, SP1 and SP3, and regulates their function. Component of the BRG1-RB1-HDAC1 complex, which negatively regulates the CREST-mediated transcription in resting neurons. Upon calcium stimulation, HDAC1 is released from the complex and CREBBP is recruited, which facilitates transcriptional activation. Deacetylates TSHZ3 and regulates its transcriptional repressor activity. Deacetylates 'Lys-310' in RELA and thereby inhibits the transcriptional activity of NF-kappa-B. Component a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.