

HDAC1 (Phospho-Ser421) Antibody

Catalog No: #12037



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

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Description

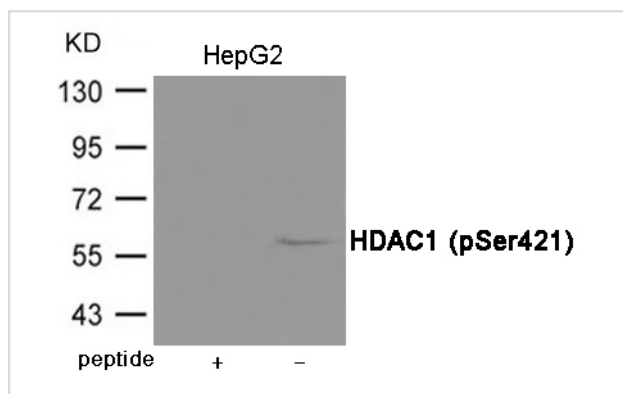
Product Name	HDAC1 (Phospho-Ser421) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography 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 Mg ²⁺ and Ca ²⁺), 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.