



Anti-HDAC1 monoclonal antibody, clone 6D4 (DCABH-422)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to HDAC1
Antigen Description	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.
Immunogen	Recombinant full length HDAC1 produced in HEK293T cells (Human) (NP_004955)
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Rat, Human, Monkey
Clone	6D4
Purification	Purified from mouse ascites fluids by affinity chromatography
Conjugate	Unconjugated
Applications	WB, Flow Cyt, ICC/IF
Positive Control	WB: Transfected HEK293T cells, HepG2; Hela; A549; HT29; MDCK; COS7; MCF9, PC12 or

Jurkat extracts FC: Transfected HEK293T cells ICC/IF: COS7 cells

Format	Liquid
Size	100 µl
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 50% Glycerol, 1% BSA
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid repeated freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	HDAC1 histone deacetylase 1 [Homo sapiens]
Official Symbol	HDAC1
Synonyms	HDAC1; histone deacetylase 1; RPD3L1; GON 10; HD1; reduced potassium dependency, yeast homolog-like 1; RPD3; GON-10; DKFZp686H12203;
Entrez Gene ID	3065
Protein Refseq	NP_004955
UniProt ID	Q13547
Chromosome Location	1p34
Pathway	Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); RNA polymerase II transcription corepressor activity; activating trans