Active Recombinant Human HDAC2, GST-tagged

Cat. No. HDAC2-1355H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human HDAC2 was expressed by baculovirus in Sf9 insect cells using a C-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	HDAC2 or Histone deacetylase 2 belongs to the histone deacetylase family that acts via the formation of large multiprotein complexes, and is responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). HDAC2 forms transcriptional repressor complexes by associating with many different proteins and plays an important role in transcriptional regulation, cell cycle progression and developmental events. HDAC2 functions in modulating synaptic plasticity and long-lasting changes of neural circuits, which in turn negatively regulates learning and memory. HDAC1 and HDAC2 are functionally redundant in cardiac growth and development and they maintain cardiomyocyte identity and function.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	4180 RLU/min/ng

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Molecular Mass	~92 kDa
Purity	>70%
Applications	HDAC Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	HDAC2 histone deacetylase 2 [Homo sapiens]
Official Symbol	HDAC2
Synonyms	HDAC2; histone deacetylase 2; RPD3; YAF1; YY1-associated factor 1; transcriptional regulator homolog RPD3; HD2;
Gene ID	3066
mRNA Refseq	NM_001527
Protein Refseq	NP_001518
MIM	605164
UniProt ID	Q92769
Chromosome Location	6q21

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Pathway	Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Direct p53 effectors, 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); chromatin binding; enzyme binding; histone deacetylase activity; histone deacetylase activity (H3-K16 specific); hydrolase activity; protein binding; protein deacetylase activity; sequence-specific DNA binding; transcription factor binding;

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