HDAC2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	HDAC2, Blocking Peptide
Full Product Name	HDAC2 Peptide - middle region
Product Gene Name	HDAC2 blocking peptide
Product Synonym Gene Name	RPD3; YAF1; HD2
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	HDAC2 peptide (MBS3225698) is used for blocking the activity of HDAC2 antibody (MBS3200652)
Molecular Weight	65kDa
OMIM	605164
Product Categories/Family for HDAC2 blocking peptide	Peptide
Applications Tested/Suitable for HDAC2 blocking peptide	Chromatin IP (ChIP), Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for HDAC2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-HDAC2 antibody made Target Description: Histone deacetylase 2 (HDAC2), or transcriptional regulator homolog RPD3 L1, is highly homologous to the yeast transcription factor RPD3 (reduced potassium dependency 3) gene. As in yeast, human HDA2 is likely to be involved in regulating chromatin struct
Other Notes	Small volumes of HDAC2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HDAC2 purchase	MBS3225698 is a blocking peptide targeting HDAC2. Also known as HDAC2 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC2. It may not necessarily be applicable to this product.

NCBI GI #	293336691
NCBI GeneID	3066
NCBI Accession #	NP_001518
UniProt Primary Accession #	Q92769
UniProt Related Accession #	Q92769
GenBank Nucleotide #	NM_001527
NCBI Official Full Name	histone deacetylase 2
NCBI Official Synonym Full Names	histone deacetylase 2
NCBI Official Symbol	HDAC2
NCBI Official Synonym Symbols	HD2; RPD3; YAF1; KDAC2

UniProt Protein Name	Histone deacetylase 2
UniProt Gene Name	HDAC2
UniProt Synonym Gene Names	HD2
UniProt Entry Name	HDAC2_HUMAN
NCBI Protein Information	histone deacetylase 2
NCBI Summary for HDAC2	This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). This protein forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]
UniProt Comments for HDAC2	HDAC2: a transcriptional regulator of the histone deacetylase family, subfamily 1. Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation plays a role in epigenetic repression and transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Protein type: Deacetylase; Transcription, coactivator/corepressor; EC 3.5.1.98; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 6q21 Cellular Component: nucleoplasm; heterochromatin; transcription factor complex; protein complex; Sin3 complex; ESC/E(Z) complex; nuclear chromatin; cytoplasm; replication fork; NuRD complex; nucleus Molecular Function: deacetylase activity; NAD-dependent histone deacetylase activity (H3-K9 specific); protein binding; enzyme binding; nucleosomal DNA binding; NAD-dependent histone deacetylase activity (H3-K14 specific); sequence-specific DNA binding; heat shock protein binding; protein deacetylase activity; NAD-dependent histone deacetylase activity (H4-K16 specific); chromatin binding; histone deacetylase activity; transcription factor activity; transcription factor binding Biological Process: establishment and/or maintenance of chromatin architecture; nerve growth factor receptor signaling pathway; positive regulation of proteolysis; positive regulation of transcription, DNA-dependent; positive regulation of collagen biosynthetic process; negative regulation of transcription from RNA polymerase II promoter; regulation of gene expression, epigenetic; negative regulation of cell cycle; cardiac muscle cell development; negative regulation of gene expression, epigenetic; negative regulation of cardiac muscle cell proliferation; positive regulation of cell proliferation; dendrite development; circadian regulation of gene expression; positive regulation of oligodendrocyte differentiation; response to drug; transcription, DNA-dependent; negative regulation of transcription factor activity; hippocampus development; histone deacetylation; regulation of protein kinase B signaling cascade; response to cocaine; odontogenesis of dentine-containing teeth; chromatin remodeling; ATP-dependent chromatin remodeling; negative regulation of MHC class II biosynthetic process; maintenance of chromatin silencing; epidermal cell differentiation; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; gene expression; embryonic digit morphogenesis; negative regulation of transcription, DNA-dependent; blood coagulation; negative regulation of apoptosis
Research Articles on HDAC2	**1.** HDAC2 silenced-MG63 and Saos2 cells acquired a stem phenotype, and promoted in vivo tumorigenesis. In human osteosarcoma tissues, HDAC2 was strongly expressed in nucleus.
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