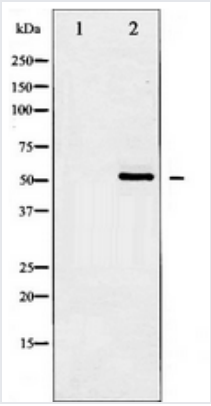
HDAC2 Antibody

PRODUCT OVERVIEW

Product Name	HDAC2, Antibody
Full Product Name	HDAC2 Antibody
Product Gene Name	anti-HDAC2 antibody
Product Synonym Names	HD2; HDAC2; Histone deacetylase 2; RPD3; transcriptional regulator homolog RPD3; YAF1; YY1-associated factor 1
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	HDAC2 Antibody detects endogenous levels of total HDAC2
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	55kDa
OMIM	605164
3D Structure	ModBase 3D Structure for Q92769
Immunogen	A synthesized peptide derived from human HDAC2
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HDAC2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-HDAC2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-HDAC2 antibody	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.
Other Notes	Small volumes of anti-HDAC2 antibody 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	MBS8512472 is an antibody targeting HDAC2. Also known as HDAC2 Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-HDAC2 antibody
Western blot analysis of HDAC2 expression in HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

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_001518.3
UniProt Primary Accession #	Q92769
UniProt Secondary Accession #	Q5SRI8; Q5SZ86; Q8NEH4; B3KRS5; B4DL58; E1P561
UniProt Related Accession #	Q92769
GenBank Nucleotide #	NM_001527.3
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
UniProt Protein Name	Histone deacetylase 2
UniProt Gene Name	HDAC2
UniProt Synonym Gene Names	HD2
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	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. Forms transcriptional repressor complexes by associating with MAD, SIN3, YY1 and N-COR. Interacts in the late S-phase of DNA-replication with DNMT1 in the other transcriptional repressor complex composed of DNMT1, DMAP1, PCNA, CAF1. Deacetylates TSHZ3 and regulates its transcriptional repressor activity. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. May be involved in the transcriptional repression of circadian target genes, such as PER1, mediated by CRY1 through histone deacetylation. Involved in MTA1-mediated transcriptional corepression of TFF1 and CDKN1A.
Research Articles on HDAC2	**1.** Taken together, these data clearly show that FKBP3/Sp1/HDAC2/p27 control cell proliferation during non-small cell lung cancer development.
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