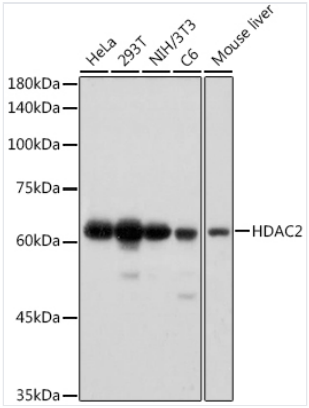
HDAC2 Antibody – Rabbit Monoclonal

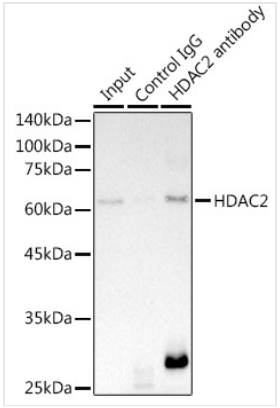
PRODUCT OVERVIEW

Product Name	HDAC2, Monoclonal Antibody
Full Product Name	HDAC2 Rabbit mAb
Product Gene Name	anti-HDAC2 antibody
Product Synonym Names	HD2; RPD3; YAF1; KDAC2; HDAC2
Immunogen Sequence	MAYSQGGGKK KVCYYYDGDI GNYYYGQGHP MKPHRIRMTH NLLLNYGLYR KMEIYRPHKA TAEEMTKYHS DEYIKFLRSI RPDNMSEYSK QMQRFNVGED
Clonality	Monoclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 55kDa Observed MW: 60kDa
OMIM	605164
3D Structure	ModBase 3D Structure for Q92769
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human HDAC2 (NP_001518.3).
Product Categories/Family for anti-HDAC2 antibody	Epigenetics Nuclear Signaling; Epigenetic writers and erasers of core Histones; Nuclear Receptor Signaling; Signal Transduction; Cell Biology Developmental Biology; Cell Cycle; Cell Cycle Control-G1 S Checkpoint; Wnt ---Catenin Signaling Pathway; Immunolo
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HDAC2 antibody	Western Blot (WB), Immunoprecipitation (IP), ELISA (EIA)
Application Notes for anti-HDAC2 antibody	WB: 1:1000-1:6000 IP: 0.5ug-4ug antibody for 200ug-400ug extracts of whole cells ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-HDAC2 antibody	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.
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	MBS9147363 is an antibody targeting HDAC2. Also known as HDAC2 Rabbit mAb. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HDAC2 antibody
Western blot analysis of various lysates using HDAC2 Rabbit mAb (MBS9147363) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.



Immunoprecipitation (IP) of anti-HDAC2 antibody
Immunoprecipitation analysis of 300 ug extracts of HeLa cells using 3 ug HDAC2 antibody (MBS9147363). Western blot was performed from the immunoprecipitate using HDAC2 antibody (MBS9147363) at a dilution of 1:1000.

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; B4DL58; E1P561
UniProt Related Accession #	Q92769
GenBank Nucleotide #	NM_001527.3
UniProt Protein Name	Histone deacetylase 2
UniProt Gene Name	HDAC2
UniProt Synonym Gene Names	HD2
UniProt Entry Name	HDAC2_HUMAN

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
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