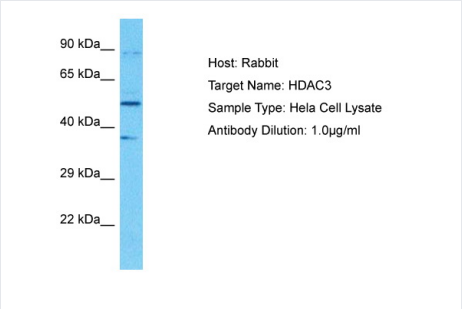
HDAC3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HDAC3, Polyclonal Antibody
Full Product Name	HDAC3 Antibody - C-terminal region
Product Gene Name	anti-HDAC3 antibody
Product Synonym Gene Name	HD3; RPD3; RPD3-2
Immunogen Sequence	Synthetic peptide located within the following region: IHDVPADLLT YDRTDEADAE ERGPEENYSR PEAPNEFYDG DHDNDKESDV
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	HDAC3 peptide (MBS3247851) is used for blocking the activity of HDAC3 antibody (MBS3223208)
Molecular Weight	49 kDa
OMIM	605166
3D Structure	ModBase 3D Structure for O15379
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of human HDAC3
Product Categories/Family for anti-HDAC3 antibody	Polyclonal; Cancer; Transcription Regulation; Chromatin & Nuclear Signaling; Developmental Biology; Apoptosis; Disease Related; Meiosis/Mitosis/Cell Cycle
Applications Tested/Suitable for anti-HDAC3 antibody	Western Blot (WB)
Related Product Information for anti-HDAC3 antibody	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene.
Other Notes	Small volumes of anti-HDAC3 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 HDAC3 purchase	MBS3223208 is an antibody targeting HDAC3. Also known as HDAC3 Antibody - C-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HDAC3 antibody
Host: RabbitTarget Name: HDAC3Sample Tissue: Human Hela Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC3. It may not necessarily be applicable to this product.

NCBI GI #	13128862
NCBI GeneID	8841
NCBI Accession #	NP_003874.2
UniProt Primary Accession #	O15379
UniProt Related Accession #	O15379
GenBank Nucleotide #	NM_003883.3
NCBI Official Full Name	histone deacetylase 3 isoform 2
NCBI Official Synonym Full Names	histone deacetylase 3
NCBI Official Symbol	HDAC3
NCBI Official Synonym Symbols	HD3; RPD3; KDAC3; RPD3-2
UniProt Protein Name	Histone deacetylase 3
UniProt Synonym Protein Names	RPD3-2; SMAP45
Protein Family	Histone deacetylase
UniProt Gene Name	HDAC3
UniProt Synonym Gene Names	HD3
UniProt Entry Name	HDAC3_HUMAN
NCBI Protein Information	histone deacetylase 3

UniProt Comments for HDAC3	HDAC3: Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4), and some other non-histone substrates. 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. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1; increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor. Acts as a molecular chaperone for shuttling phosphorylated NR2C1 to PML bodies for sumoylation. Interacts with HDAC7 and HDAC9. Forms a heterologous complex at least with YY1. Interacts with DAXX, HDAC10 and DACH1. Found in a complex with NCOR1 and NCOR2. Component of the N-Cor repressor complex, at least composed of NCOR1, NCOR2, HDAC3, TBL1X, TBL1R, CORO2A and GPS2. Interacts with BCOR, MJD2A/JHDM3A, NRIP1, PRDM6 and SRY. Interacts with BTBD14B. Interacts with GLIS2. Interacts (via the DNA-binding domain) with NR2C1; the interaction recruits phosphorylated NR2C1 to PML bodies for sumoylation. Component of the Notch corepressor complex. Interacts with CBFA2T3 and NKAP. Interacts with APEX1; the interaction is not dependent on the acetylated status of APEX1. Interacts with and deacetylates MAPK14. Interacts with ZMYND15. Widely expressed. Belongs to the histone deacetylase family. HD type 1 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Apoptosis; Nuclear receptor co-regulator; Transcription, coactivator/corepressor; Deacetylase; EC 3.5.1.98 Chromosomal Location of Human Ortholog: 5q31 Cellular Component: nucleoplasm; Golgi apparatus; transcriptional repressor complex; spindle microtubule; cytoplasm; histone deacetylase complex; plasma membrane; nucleus Molecular Function: protein binding; cyclin binding; NAD-dependent histone deacetylase activity (H3-K9 specific); enzyme binding; NAD-dependent histone deacetylase activity (H3-K14 specific); chromatin DNA binding; histone deacetylase binding; protein deacetylase activity; NAD-dependent histone deacetylase activity (H4-K16 specific); chromatin binding; histone deacetylase activity; transcription factor binding; transcription corepressor activity Biological Process: circadian rhythm; negative regulation of JNK cascade; establishment and/or maintenance of chromatin architecture; Notch signaling pathway; transcription, DNA-dependent; nerve growth factor receptor signaling pathway; regulation of mitotic cell cycle; regulation of multicellular organism growth; regulation of protein stability; chromatin modification; spindle assembly; cellular lipid metabolic process; negative regulation of transcription from RNA polymerase II promoter; negative regulation of cell cycle; protein amino acid deacetylation; positive regulation of transcription factor import into nucleus; positive regulation of transcription from RNA polymerase II promoter; positive regulation of protein amino acid phosphorylation; circadian regulation of gene expression; negative regulation of transcription, DNA-dependent; positive regulation of TOR signaling pathway; negative regulation of apoptosis
Research Articles on HDAC3	**1.** The HDAC3 mRNA was expressed more in glioma than in the normal glial cell line. Low HDAC3 mRNA expression levels predicted better overall survival.
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