HDAC3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HDAC3, Polyclonal Antibody
Full Product Name	HDAC3 Conjugated Antibody
Product Gene Name	anti-HDAC3 antibody
Product Synonym Names	histone deacetylase 3; HD3; RPD3; RPD3-2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total HDAC3 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	Predicted: 53 kDa Observed: 54 kDa
OMIM	601241
3D Structure	ModBase 3D Structure for Q13547
Immunogen	Synthetic peptide corresponding to a region derived from 414-428 amino acids of Human histone deacetylase 3
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-HDAC3 antibody	Most Applications
Application Notes for anti-HDAC3 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
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	MBS9442390 is an antibody targeting HDAC3. Also known as HDAC3 Conjugated Antibody. Reactive in Human, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	13128860
NCBI GeneID	3065
NCBI Accession #	NP_004955
UniProt Primary Accession #	Q13547
UniProt Secondary Accession #	Q92534
UniProt Related Accession #	Q13547
GenBank Nucleotide #	NM_004964.2
NCBI Official Full Name	histone deacetylase 1
NCBI Official Synonym Full Names	histone deacetylase 1
NCBI Official Symbol	HDAC1
NCBI Official Synonym Symbols	HD1; RPD3; GON-10; RPD3L1
UniProt Protein Name	Histone deacetylase 1
Protein Family	Histone deacetylase
UniProt Gene Name	HDAC1
UniProt Synonym Gene Names	RPD3L1; HD1
UniProt Entry Name	HDAC1_HUMAN
NCBI Protein Information	histone deacetylase 1; reduced potassium dependency, yeast homolog-like 1
NCBI Summary for HDAC3	Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq, Jul 2008]

UniProt Comments for HDAC3	HDAC1: a transcriptional regulator of the histone deacetylase family, subfamily 1. Deacetylates lysine residues on the N-terminal part of the core histones H2A, H2B, H3 AND H4. Plays an important role in transcriptional regulation, cell cycle progression and developmental events. Protein type: Hydrolase; Nuclear receptor co-regulator; EC 3.5.1.98 Chromosomal Location of Human Ortholog: 1p34 Cellular Component: nucleoplasm; protein complex; Sin3 complex; cytoplasm; histone deacetylase complex; nuclear chromatin; NuRD complex; chromatin; nucleus; cytosol Molecular Function: deacetylase activity; nucleosomal DNA binding; transcription activator binding; histone deacetylase binding; protein deacetylase activity; protein N-terminus binding; transcription factor binding; protein binding; NAD-dependent histone deacetylase activity (H3-K9 specific); enzyme binding; NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); histone deacetylase activity; transcription factor activity Biological Process: establishment and/or maintenance of chromatin architecture; nerve growth factor receptor signaling pathway; viral reproduction; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; regulation of gene expression, epigenetic; negative regulation of cell cycle; protein amino acid deacetylation; negative regulation of gene expression, epigenetic; transforming growth factor beta receptor signaling pathway; positive regulation of cell proliferation; circadian regulation of gene expression; transcription initiation from RNA polymerase II promoter; Notch signaling pathway; transcription, DNA-dependent; histone deacetylation; chromatin modification; odontogenesis of dentine-containing teeth; chromatin remodeling; ATP-dependent chromatin remodeling; epidermal cell differentiation; positive regulation of transcription from RNA polymerase II promoter; gene expression; mitotic cell cycle; embryonic digit morphogenesis; negative regulation of transcription, DNA-dependent; blood coagulation; negative regulation of apoptosis
Research Articles on HDAC3	**1.** novel HDAC1/4/miR-200b/E2F3 signaling contributes to chemoresistance of human lung adenocarcinoma cells
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