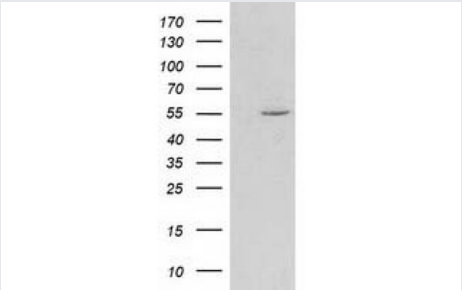
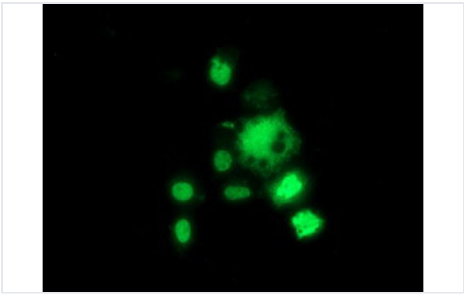
HDAC1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HDAC1, Monoclonal Antibody
Full Product Name	HDAC1 antibody
Product Gene Name	anti-HDAC1 antibody
Product Synonym Names	Monoclonal HDAC1; Anti-HDAC1; Histone deacetylase 1; HD1; RPD3; GON-10; RPD3L1; DKFZp686H12203; HDAC1; HDA 1c; HDA-1c
Clonality	Monoclonal
Isotype	IgG1
Clone Number	6F11
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	HDAC1 antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	55,103 Da
OMIM	601241
3D Structure	ModBase 3D Structure for Q13547
Cross-Reactivity	Human
Immunogen	HDAC1 antibody was raised in mouse using a full length recombinant protein of human HDAC1 (NP_004955) produced in HEK293T cells, as the immunogen.
Product Categories/Family for anti-HDAC1 antibody	DNA & RNA
Applications Tested/Suitable for anti-HDAC1 antibody	Flow Cytometry (FC/FACS), Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-HDAC1 antibody	IF: 1:100 FC: 1:100 WB: 1:500
Related Product Information for anti-HDAC1 antibody	MBS830938 is an antibody targeting HDAC1. Also known as HDAC1 antibody. Host: Mouse. Mouse monoclonal HDAC1 antibody
Other Notes	Small volumes of anti-HDAC1 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.



Western Blot (WB) of anti-HDAC1 antibody
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant HDAC1 protein (Right) or empty vector (Left) detected with HDAC1 antibody



Immunofluorescence (IF) of anti-HDAC1 antibody
Immunofluorescent staining of COS7 cells transiently transfected with recombinant HDAC1 protein using HDAC1 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC1. 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	Msx2-interacting protein
UniProt Gene Name	HDAC1
UniProt Synonym Gene Names	RPD3L1; HD1
UniProt Entry Name	HDAC1_HUMAN
NCBI Protein Information	histone deacetylase 1
NCBI Summary for HDAC1	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 HDAC1	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: EC 3.5.1.98; Hydrolase; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 1p34 Cellular Component: nucleoplasm; protein complex; Sin3 complex; nuclear chromatin; cytoplasm; histone deacetylase complex; NuRD complex; nucleus; cytosol; chromatin 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; gene expression; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; embryonic digit morphogenesis; negative regulation of transcription, DNA-dependent; blood coagulation; negative regulation of apoptosis
Research Articles on HDAC1	**1.** HDAC1 and Klf4 are potential new molecular markers and targets for clinical diagnosis, prognosis, and treatment of myeloid leukemia.
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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/hdac1/830938