HDAC5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HDAC5, Polyclonal Antibody
Full Product Name	HDAC5
Product Gene Name	anti-HDAC5 antibody
Product Synonym Names	KIAA0600; HD5; NY-CO-9
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
Molecular Weight	122kd
OMIM	605315
3D Structure	ModBase 3D Structure for Q9UQL6
Immunogen	A peptide corresponding to middle region of human HDAC5 protein.
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HDAC5 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-HDAC5 antibody	ELISA: 1:20,000-80,000 WB: 1:200-1,000
Related Product Information for anti-HDAC5 antibody	MBS8560306 is an antibody targeting HDAC5. Reactive in Human. Host: Rabbit. Histone deacetylase 5
Other Notes	Small volumes of anti-HDAC5 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC5. It may not necessarily be applicable to this product.

NCBI GI #	62750347
NCBI GeneID	10014
NCBI Accession #	NP_005465.2
UniProt Primary Accession #	Q9UQL6
UniProt Related Accession #	Q9UQL6
GenBank Nucleotide #	NP_005465.2

NCBI Official Full Name	histone deacetylase 5 isoform 1
NCBI Official Synonym Full Names	histone deacetylase 5
NCBI Official Symbol	HDAC5
NCBI Official Synonym Symbols	HD5; NY-CO-9
UniProt Protein Name	Histone deacetylase 5
UniProt Synonym Protein Names	Antigen NY-CO-9
UniProt Gene Name	HDAC5
UniProt Synonym Gene Names	KIAA0600; HD5
UniProt Entry Name	HDAC5_HUMAN
NCBI Protein Information	histone deacetylase 5
NCBI Summary for HDAC5	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 class II histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for HDAC5	HDAC5: a transcriptional regulator of the histone deacetylase family, subfamily 2. 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. Coimmunoprecipitates only with HDAC3 family members. Interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. Two alternatively spliced isoforms have been described. Protein type: EC 3.5.1.98; Hydrolase Chromosomal Location of Human Ortholog: 17q21 Cellular Component: nucleoplasm; nuclear body; Golgi apparatus; histone deacetylase complex; cytoplasm; nucleus; cytosol Molecular Function: NAD-dependent histone deacetylase activity (H3-K9 specific); protein binding; protein kinase C binding; NAD-dependent histone deacetylase activity (H3-K14 specific); histone deacetylase binding; metal ion binding; protein deacetylase activity; NAD-dependent histone deacetylase activity (H4-K16 specific); histone deacetylase activity; transcription corepressor activity; transcription factor binding Biological Process: establishment and/or maintenance of chromatin architecture; heart development; chromatin silencing; negative regulation of transcription from RNA polymerase II promoter; regulation of gene expression, epigenetic; protein amino acid deacetylation; negative regulation of osteoblast differentiation; inflammatory response; response to drug; Notch signaling pathway; regulation of skeletal muscle fiber development; transcription, DNA-dependent; B cell activation; histone deacetylation; chromatin modification; response to cocaine; osteoblast development; chromatin remodeling; cellular response to insulin stimulus; regulation of protein binding; B cell differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; negative regulation of transcription, DNA-dependent; multicellular organismal response to stress
Research Articles on HDAC5	**1.** HDAC5 overexpression in urothelial carcinoma cell lines decreases cell proliferation but can promote epithelial-to-mesenchymal transition.
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