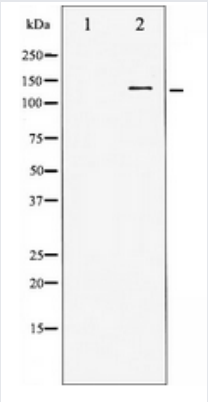
HDAC5 Antibody

PRODUCT OVERVIEW

Product Name	HDAC5, Antibody
Full Product Name	HDAC5 Antibody
Product Gene Name	anti-HDAC5 antibody
Product Synonym Names	DKFZp779K1053; HD7; HD7b; HD9; HDAC; HDAC7; HDAC7B; HDAC9; HDAC9B; HDAC9FL; HDRP; histone deacetylase 4/5-related protein; histone deacetylase 7; Histone deacetylase 7B; Histone deacetylase 9; Histone deacetylase-related protein; KIAA0744; MEF-2 interacti
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	HDAC5 Antibody detects endogenous levels of total HDAC5
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	124kDa
OMIM	605315
3D Structure	ModBase 3D Structure for Q9UQL6
Immunogen	A synthesized peptide derived from human HDAC5
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HDAC5 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-HDAC5 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-HDAC5 antibody	HDAC9 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.
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.
Searchable Terms for HDAC5 purchase	MBS8512492 is an antibody targeting HDAC5. Also known as HDAC5 Antibody. Reactive in Human, Mouse.



Western Blot (WB) of anti-HDAC5 antibody
Western blot analysis of HDAC5 expression in HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

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

NCBI GI #	62750349
NCBI GeneID	10014
NCBI Accession #	NP_001015053.1
UniProt Primary Accession #	Q9UQL6
UniProt Secondary Accession #	O60340; O60528; Q96DY4; C9JFV9
UniProt Related Accession #	Q9UQL6
GenBank Nucleotide #	NM_001015053.1
NCBI Official Full Name	histone deacetylase 5 isoform 3
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
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	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). 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. Involved in muscle maturation by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer.
Research Articles on HDAC5	**1.** These findings demonstrate a novel mechanism for deregulation of HDAC5 in non-small cell lung cancer (NSCLC)and suggest that miR5895p/HDAC5 pathway may represent a new prognostic biomarker and therapeutic target against NSCLC.
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