

# HDAC5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HDAC5.

Catalog # AT2340a

## Product Information

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<b>Application</b>	WB, IF, E
<b>Primary Accession</b>	<a href="#">Q9UQL6</a>
<b>Other Accession</b>	<a href="#">BC051824</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 Kappa
<b>Clone Names</b>	4G2
<b>Calculated MW</b>	121978

## Additional Information

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<b>Gene ID</b>	10014
<b>Other Names</b>	Histone deacetylase 5, HD5, Antigen NY-CO-9, HDAC5, KIAA0600
<b>Target/Specificity</b>	HDAC5 (AAH51824, 330 a.a. ~ 429 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IF~~1:50~200 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	HDAC5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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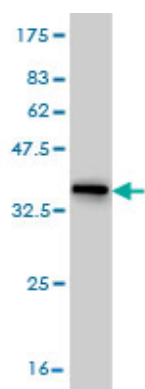
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the class II histone deacetylase/acuc/apha 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.

## References

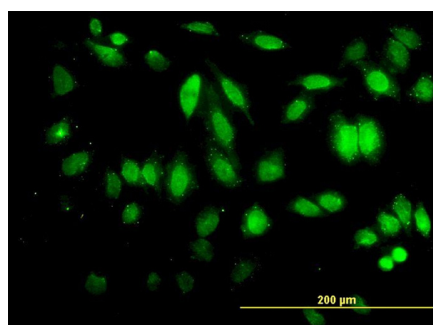
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Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Protein kinase C-related kinase targets nuclear localization signals in a subset of class IIa histone deacetylases. Harrison BC, et al. FEBS Lett, 2010 Mar 19. PMID 20188095. Fluid shear stress stimulates phosphorylation-dependent nuclear export of HDAC5 and mediates expression of KLF2 and eNOS. Wang W, et al. Blood, 2010 Apr 8. PMID 20042720. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121. Twenty bone-mineral-density loci identified by large-scale meta-analysis of genome-wide association studies. Rivadeneira F, et al. Nat Genet, 2009 Nov. PMID 19801982.

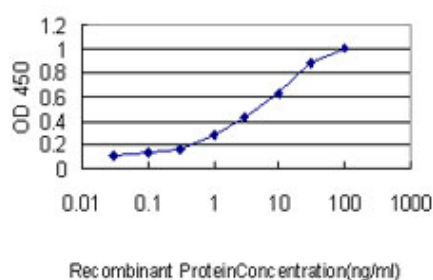
## Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



Immunofluorescence of monoclonal antibody to HDAC5 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged HDAC5 is approximately 0.1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.