

**HDAC5 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant HDAC5.****Catalog # AT2340a****Specification**

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**HDAC5 Antibody (monoclonal) (M01) - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | IF, WB, E                |
| Primary Accession | <a href="#">O9UQL6</a>   |
| Other Accession   | <a href="#">BC051824</a> |
| Reactivity        | Human                    |
| Host              | Mouse                    |
| Clonality         | Monoclonal               |
| Isotype           | IgG1 Kappa               |
| Calculated MW     | 121978                   |

**HDAC5 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 10014**Other Names**

Histone deacetylase 5, HD5, Antigen NY-CO-9, HDAC5, KIAA0600

**Target/Specificity**

HDAC5 (AAH51824, 330 a.a. ~ 429 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

HDAC5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

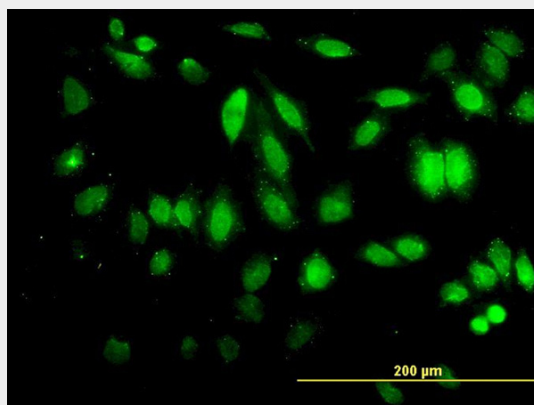
**HDAC5 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

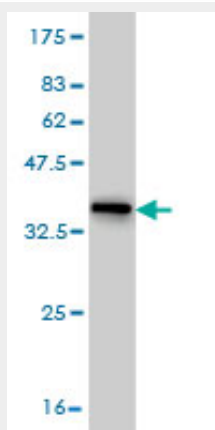
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

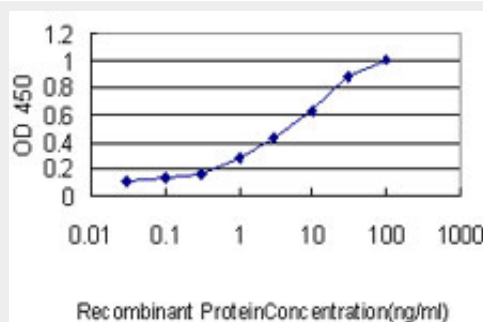
### HDAC5 Antibody (monoclonal) (M01) - Images



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



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



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

### HDAC5 Antibody (monoclonal) (M01) - Background

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.

#### **HDAC5 Antibody (monoclonal) (M01) - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-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.