10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# HDAC8 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant HDAC8.
Catalog # AT2342a

## Product Information

| | |
|---|---|
| **Application** | WB, IF, E |
| **Primary Accession** | Q9BY41 |
| **Other Accession** | BC050433 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG2b Kappa |
| **Clone Names** | 2F4 |
| **Calculated MW** | 41758 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 55869 |
| **Other Names** | Histone deacetylase 8, HD8, HDAC8, HDACL1 |
| **Target/Specificity** | HDAC8 (AAH50433, 1 a.a. ~ 377 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 IF~~1:50~200 E~~N/A |
| **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** | HDAC8 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

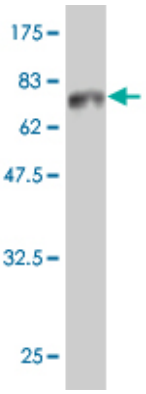
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class I of the histone deacetylase family. It catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. Multiple transcript variants encoding different isoforms have been found for this gene.

## References

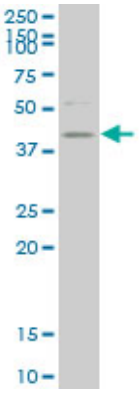
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Structures of metal-substituted human histone deacetylase 8 provide mechanistic inferences on biological function . Dowling DP, et al. Biochemistry, 2010 Jun 22. PMID 20545365.Activation and inhibition of histone deacetylase 8 by monovalent cations. Gantt SL, et al. J Biol Chem, 2010 Feb 26. PMID 20029090.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.Novel structural insights into class I and II histone deacetylases. Ficner R. Curr Top Med Chem, 2009. PMID 19355988.

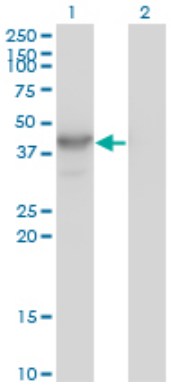
## Images




Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (66.99 KDa) .

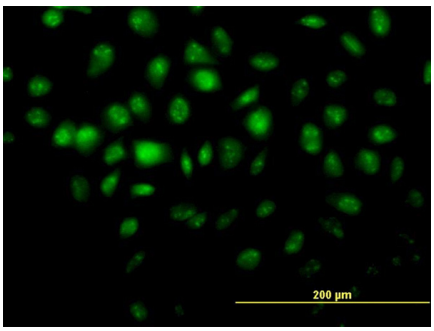



HDAC8 monoclonal antibody (M01), clone 2F4 Western Blot analysis of HDAC8 expression in Hela S3 NE ( (Cat # AT2342a )

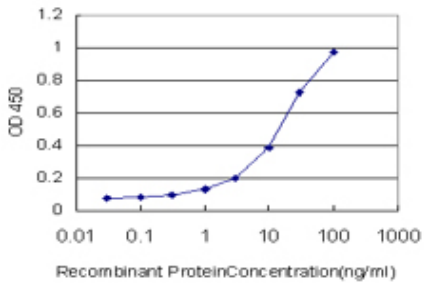



Western Blot analysis of HDAC8 expression in transfected 293T cell line by HDAC8 monoclonal antibody (M01), clone 2F4.

Lane 1: HDAC8 transfected lysate(41.8 KDa).
Lane 2: Non-transfected lysate.




Immunofluorescence of monoclonal antibody to HDAC8 on HeLa cell. [antibody concentration 10 ug/ml]




Detection limit for recombinant GST tagged HDAC8 is approximately 0.3ng/ml as a capture antibody.

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