

# HDAC8 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant HDAC8.

Catalog # AT2342a

## Product Information

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Application	WB, IF, E
Primary Accession	<a href="#">Q9BY41</a>
Other Accession	<a href="#">BC050433</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2F4
Calculated MW	41758

## Additional Information

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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

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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 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.

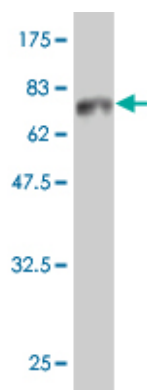
## References

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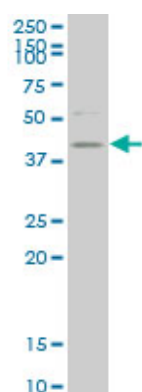
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. 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.

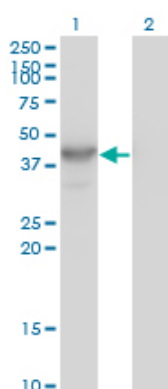
## Images



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

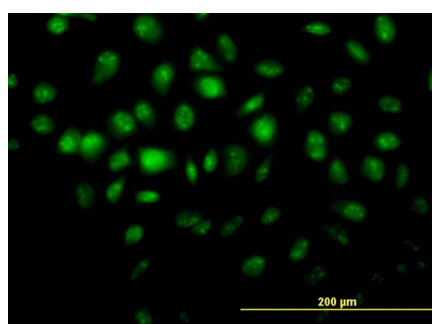


HDAC8 monoclonal antibody (M01), clone 2F4 Western Blot analysis of HDAC8 expression in HeLa S3 NE ( Cat # AT2342a )

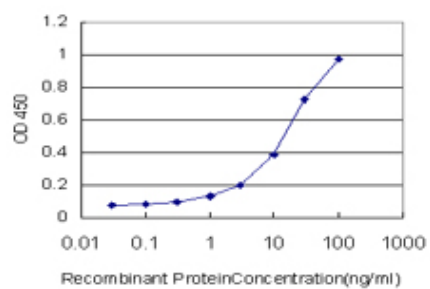


Western Blot analysis of HDAC8 expression in transfected 293T cell line by HDAC8 monoclonal antibody (M01), clone 2F4.

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'.