

HDAC8 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant HDAC8.

Catalog # AT2342a

Specification

HDAC8 Antibody (monoclonal) (M01) - Product Information

Application	IF, WB, E
Primary Accession	Q9BY41
Other Accession	BC050433
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	41758

HDAC8 Antibody (monoclonal) (M01) - 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

Format

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

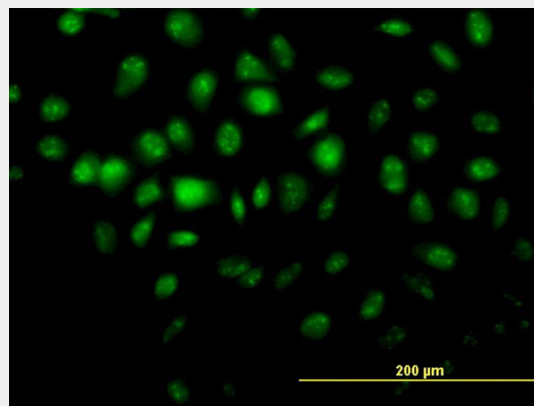
Storage

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

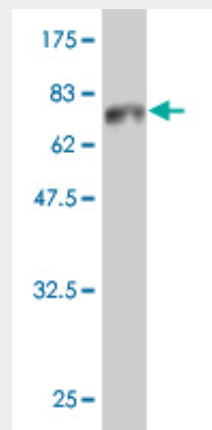
Precautions

HDAC8 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

HDAC8 Antibody (monoclonal) (M01) - Protocols



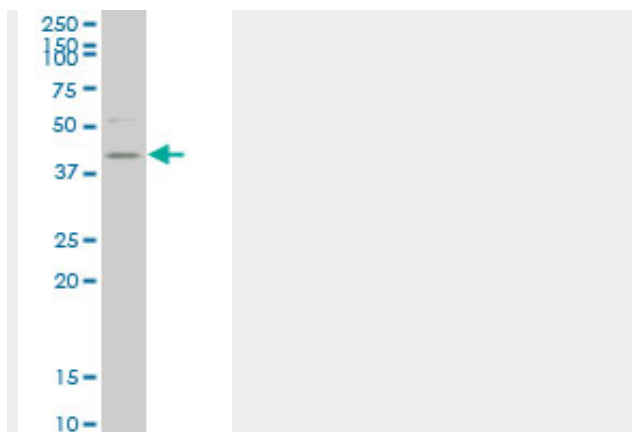
Immunofluorescence of monoclonal antibody to HDAC8 on HeLa cell. [antibody concentration 10 ug/ml]



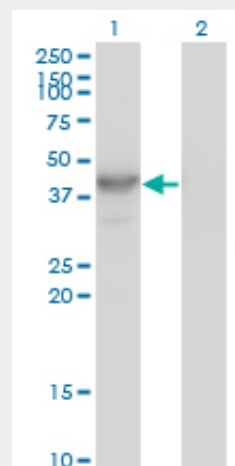
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (66.99 KDa) .

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](#)

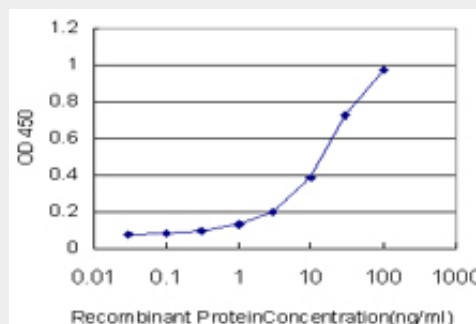


HDAC8 monoclonal antibody (M01), clone 2F4 Western Blot analysis of HDAC8 expression in HeLa S3 NE (Cat # AT2342a)



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.



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

**HDAC8 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 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.

**HDAC8 Antibody (monoclonal) (M01) -
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.