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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

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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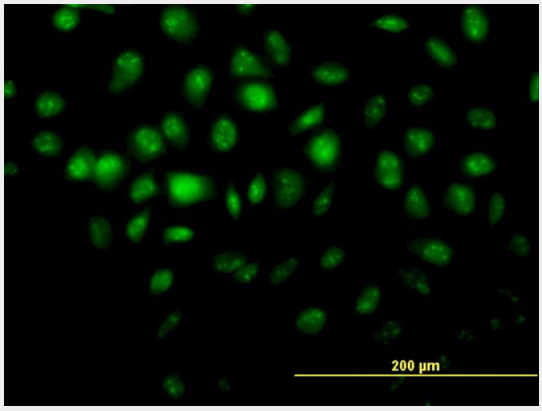
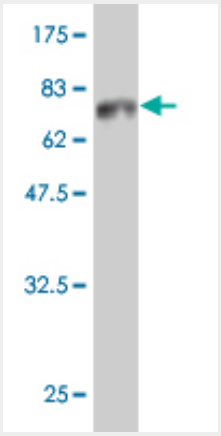
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

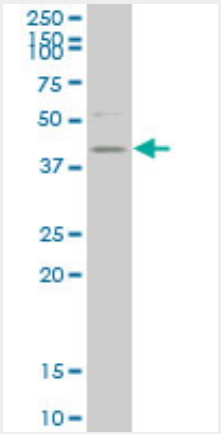
HDAC8 Antibody (monoclonal) (M01) - Images



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) .



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

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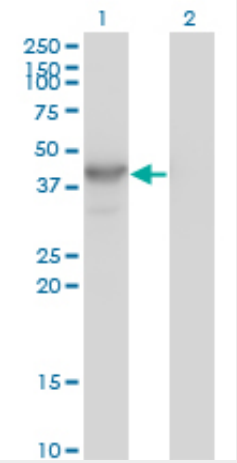
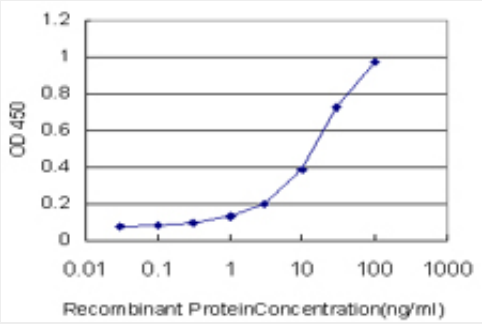


Western Blot analysis of HDAC8 expression in transfected 293T cell line by HDAC8 monoclonal antibody (M01), clone 2F4.

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.