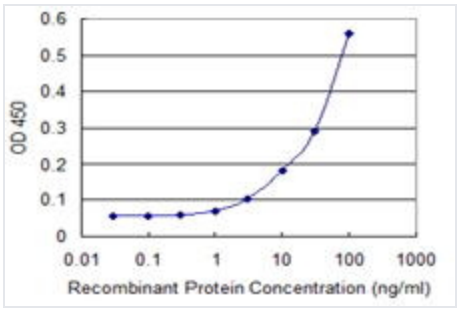
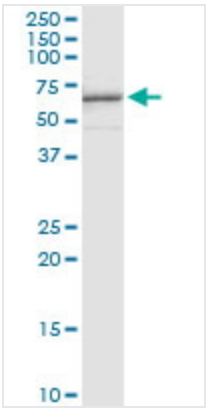
HDAC3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

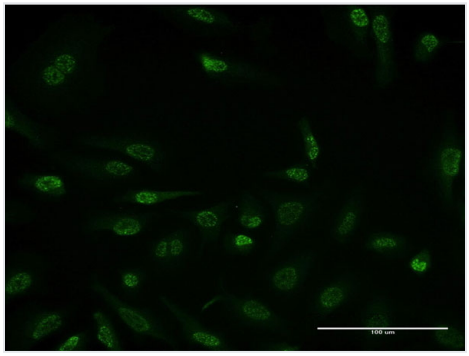
Product Name	HDAC3, Monoclonal Antibody
Full Product Name	HDAC3 (Histone Deacetylase 3, HD3, RPD3, RPD3-2) (APC)
Product Gene Name	anti-HDAC3 antibody
Product Synonym Names	Histone Deacetylase 3; HD3; RPD3; RPD3-2
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2F9-4B7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes HDAC3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Immunogen	HDAC3 (AAH00614, 1aa-428aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAKTVAYFYDPDVGNFHYGAGHPMKPHRLALTHSLVLHYGLYKKMIVFKPYQASQHDMCRFHSEDYIDFLQRVSPTNMQGFTKSLNAFNVGDDCPVFP
Conjugate	APC
Product Categories/Family for anti-HDAC3 antibody	Antibodies; Enzymes; Deacetylase
Applications Tested/Suitable for anti-HDAC3 antibody	Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-HDAC3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HDAC3 antibody	MBS6166222 is an antibody targeting HDAC3. Also known as HDAC3 (Histone Deacetylase 3, HD3, RPD3, RPD3-2) (APC). Host: Mouse. Mouse mor
Other Notes	Small volumes of anti-HDAC3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces



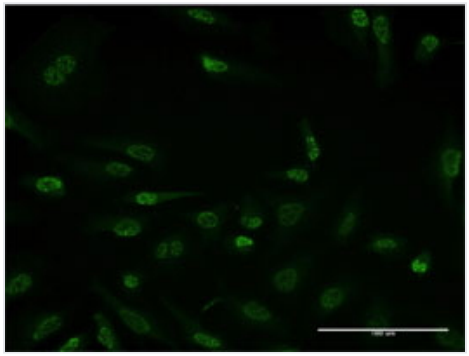
Testing Data of anti-HDAC3 antibody
Detection limit for recombinant GST tagged HDAC3 is 1 ng/ml as a capture antibody.



Immunoprecipitation (IP) of anti-HDAC3 antibody
Immunoprecipitation of HDAC3 transfected lysate using anti-HDAC3 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with HDAC3 MaxPab rabbit polyclonal antibody.



Immunofluorescence (IF) of anti-HDAC3 antibody
Immunofluorescence of monoclonal antibody to HDAC3 on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-HDAC3 antibody
Immunofluorescence of monoclonal antibody to HDAC3 on HeLa cell. [antibody concentration 10 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC3. It may not necessarily be applicable to this product.

NCBI GI #	12653663
NCBI GeneID	8841
NCBI Accession #	AAH00614
UniProt Related Accession #	O15379
NCBI Official Full Name	Histone deacetylase 3
NCBI Official Synonym Full Names	histone deacetylase 3
NCBI Official Symbol	HDAC3
NCBI Official Synonym Symbols	HD3; RPD3; KDAC3; RPD3-2
Protein Family	Histone deacetylase
NCBI Protein Information	histone deacetylase 3
NCBI Summary for HDAC3	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 histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008]

Research Articles on HDAC3	**1.** Findings show that HDAC3 exclusively regulates H3K9ac in response to DNA damage, and loss of HDAC3 activity shifts the balance from DNA damage control to protumorigenic transcriptional activity.
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