Histone Deacetylase 1 (HDAC1) Antibody

Mouse Monoclonal Antibody [Clone PCRP-HDAC1-1B7]

Catalog No	Format	Size
3065-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3065-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3065-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

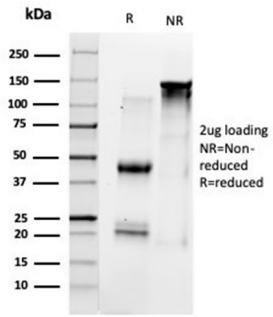
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

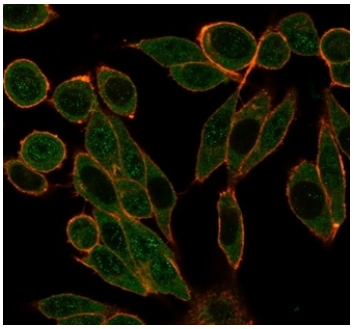
Clone	PCRP-HDAC1-1B7
Gene Name	HDAC1
Immunogen	Recombinant full-length human HDAC1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG
Mol. Weight of Antigen	60kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	HeLa or Jurkat cells.

**Optimal dilution for a specific application should be determined.*

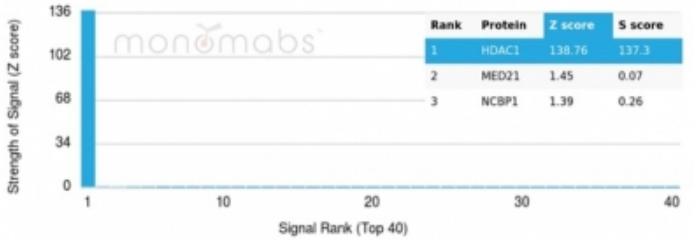
Product Images for Histone Deacetylase 1 (HDAC1) Antibody



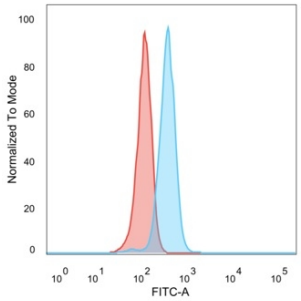
SDS-PAGE Analysis of Purified HDAC1 Mouse Monoclonal Antibody (PCRP-HDAC1-1B7). Confirmation of Purity and Integrity of Antibody.



Immunofluorescence Analysis of PFA-fixed HeLa cells stained using HDAC1 Mouse Monoclonal Antibody (PCRP-HDAC1-1B7) followed by goat anti-mouse IgG-CF488 (green). CF640R phalloidin (red).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing HDAC1-Monospecific Mouse Monoclonal Antibody (PCRP-HDAC1-1B7). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow cytometric analysis of PFA-fixed HeLa cells. HDAC1 Mouse Monoclonal Antibody (PCRP-HDAC1-1B7) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

Specificity & Comments

In the intact cell, DNA closely associates with histones and other nuclear proteins to form chromatin. The remodeling of chromatin is believed to be a critical component of transcriptional regulation and a major source of this remodeling is brought about by the acetylation of nucleosomal histones. Acetylation of lysine residues in the amino terminal tail domain of histone results in an allosteric change in the nucleosomal conformation and an increased accessibility to transcription factors by DNA. Conversely, the deacetylation of histones is associated with transcriptional silencing. Several mammalian proteins have been identified as nuclear histone acetylases, including GCN5, PCAF (for p300/ CBP-associated factor), p300/CBP and the TFIID subunit TAFII p250. Mammalian HDAC1 (also designated HD1) and HDAC2 (also designated mammalian RPD3), both of which are related to the yeast transcriptional regulator Rpd3p, have been identified as histone deacetylases.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Infectious Disease, Nuclear Marker, Ovarian Cancer, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.