Datasheet for ABIN7504168

anti-HDAC6 antibody

4 Images

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Overview

Quantity:	100 µg
Target:	HDAC6
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HDAC6 antibody is un-conjugated
Application:	Immunofluorescence (IF), Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant full-length human HDAC6 protein
Isotype:	IgG2a
Specificity:	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 (p300/CBPassociated factor), p300/CBP, HAT1, and the TFIID subunit TAF II p250. Mammalian HDAC1 (also designated HD1), HDAC2 (also designated RPD3) and HDAC3-6, have been identified as histone deacetylases.This enzyme deacetylates lysine residues in histones H2A, H2B, H3 and H4.

Product Details

Cross-Reactivity (Details):	Human.
Purification:	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target:	HDAC6
Alternative Name:	HDAC6 (HDAC6 Products)
Background:	CPBHM, HDAC6, Histone deacetylase 6 (HD6), Histone deacetylase 6, JM21, PPP1R90, Protein phosphatase 1 regulatory subunit 90,HDAC6 Cellular localisation: Nuclear
Molecular Weight:	160kDa
Gene ID:	10013, 6764
UniProt:	Q9UBN7
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling

Application Details

Application Notes:	Positive Control: A549 or HeLa cells. Known Application: Immunoprecipitation (1-2 µg per 100-500 µg of total protein), ,Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), ,Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

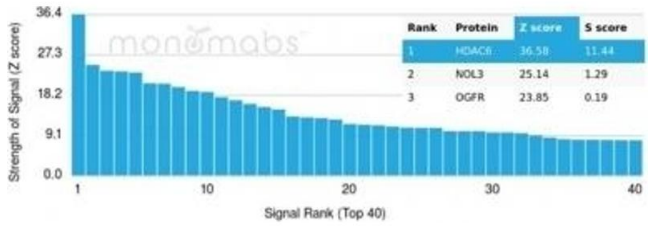
Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also

Handling

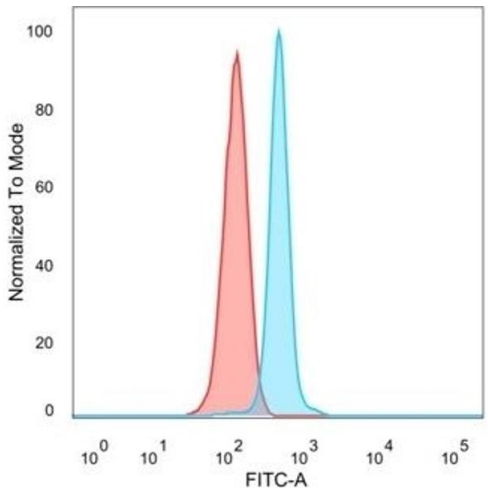
	available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



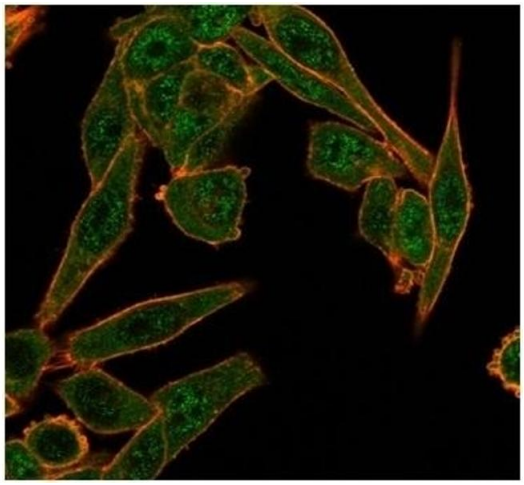
Protein Array

Image 1. Analysis of Protein Array containing more than 19,000 full-length human proteins using HDAC6-Monospecific Mouse Monoclonal Antibody (PCRP-HDAC6-1A4). 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 Cytometry

Image 2. Flow cytometric analysis of PFA-fixed HeLa cells. HDAC6 Mouse Monoclonal Antibody (PCRP-HDAC6-1A4) followed by goat anti-mouse IgG-CF488 (blue), unstained cells (red).



Immunofluorescence

Image 3. Immunofluorescence analysis of PFA-fixed HeLa cells. HDAC6 Mouse Monoclonal Antibody (PCRP-HDAC6-1A4) followed by goat anti-mouse IgG-CF488 (green).

Please check the product details page for more images. Overall 4 images are available for ABIN7504168.

