

HDAC1

Monoclonal ANTIBODY

Catalog Number: 66085-1-Ig

4 Publications

Basic Information

Catalog Number:
66085-1-Ig

Size:
150 µg/150 µl

Source:
Mouse

Isotype:
IgG1

Purification Method:
Protein G purification

Immunogen Catalog Number:
AG19128

GenBank Accession Number:
BC000301

GeneID (NCBI):
3065

Full Name:
histone deacetylase 1

Calculated MW:
55 kDa

Observed MW:
65 kDa

Recommended Dilutions:

WB 1:20000-1:100000

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells; HEK-293 cells, HepG2 cells, Jurkat cells

IHC : human lymphoma tissue; human lung cancer tissue

IF : HeLa cells;

Background Information

Histone deacetylases (HDAC) are a class of enzymes that remove the acetyl groups from the lysine residues leading to the formation of a condensed and transcriptionally silenced chromatin. The protein encoded by this gene belongs to the histone deacetylase/acuc/alpha family and is a component of the histone deacetylase complex, which is responsible for gene expression silencing. It also plays an important role in the control of cell proliferation and differentiation by interacting with RB, p53 and other transcription factors. At least 4 classes of HDAC were identified. As a class I HDAC, HDAC 1 was primarily found in the nucleus. This antibody is raised against residues near the C terminus of human HDAC1. The calculated molecular weight of HDAC1 is 55 kDa, but modified HDAC1 is about 60-65 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Lifang Li	28947780	Nat Commun	WB
Mbumita Datta	29548672	Immunity	WB
Warjin Li	28805661	J Clin Invest	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this

product please contact:

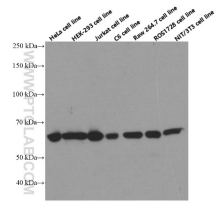
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

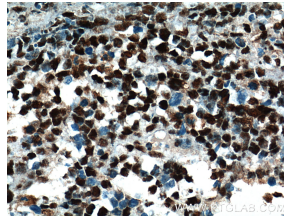
W: ptglab.com

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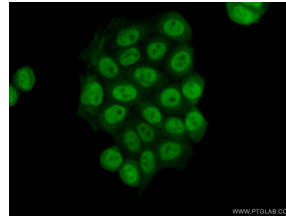
Selected Validation Data



Western blot analysis of HDAC1 in various cell lines using Proteintech antibody 66085-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 66085-1-Ig(HDAC1 Antibody) at dilution of 1:1000 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 66085-1-Ig(HDAC1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)