

For Research Use Only

CoraLite® Plus 647-conjugated HDAC1 Monoclonal antibody

Catalog Number: CL647-66085

1 Publications



Basic Information

Catalog Number:

CL647-66085

Concentration:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG19128

GenBank Accession Number:

BC000301

GeneID (NCBI):

3065

UNIPROT ID:

Q13547

Full Name:

histone deacetylase 1

Calculated MW:

55 kDa

Observed MW:

65 kDa

Purification Method:

Protein G purification

CloneNo.:

4C4G7

Recommended Dilutions:

IF/ICC: 1:500-1:2000

FC (Intra): 0.40 µg per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Cited Species:

mouse

Positive Controls:

IF/ICC : A431 cells,

FC (Intra) : 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/apha 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
Chun Zhang	39107200	J Adv Res	

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

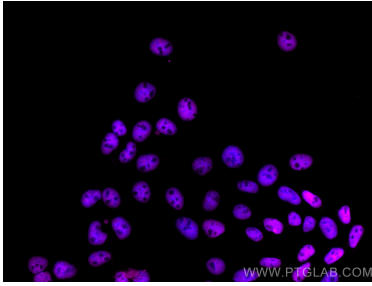
T: 4006900926

E: Proteintech-CN@ptglab.com

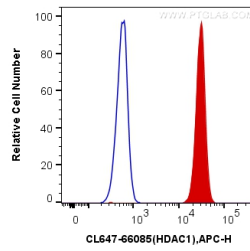
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CoraLite® Plus 647 HDAC1 antibody (CL647-66085, Clone: 4C4G7) at dilution of 1:1000.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 647 Anti-Human HDAC1 (CL647-66085, Clone:4C4G7) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).