

# CoraLite® Plus 488-conjugated HDAC1 Monoclonal antibody

Catalog Number: **CL488-66085**

## Basic Information

**Catalog Number:**

CL488-66085

**Size:**

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 1:1000-1:4000

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC, FC (Intra)

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF/ICC : A431 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.

## Storage

**Storage:**

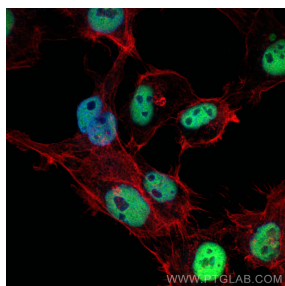
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

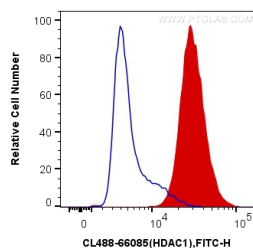
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A431 cells using Coralite® Plus 488 HDAC1 antibody (CL488-66085, Clone: 4C4G7 ) at dilution of 1:2000, CL594-Phalloidin (red).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human HDAC1 (CL488-66085, Clone:4C4G7) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL488-66360, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).