

For Research Use Only

# HDAC1 Polyclonal antibody

Catalog Number:10197-1-AP

Featured Product

115 Publications



## Basic Information

**Catalog Number:**

10197-1-AP

**Concentration:**

500 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0256

**GenBank Accession Number:**

BC000301

**GeneID (NCBI):**

3065

**UNIPROT ID:**

Q13547

**Full Name:**

histone deacetylase 1

**Calculated MW:**

55 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:8000-1:20000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP, ChIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, pig

**Positive Controls:**

**WB :** C6 cells, HeLa cells, mouse testis tissue, Jurkat cells, K-562 cells, NIH/3T3 cells

**IP :** HeLa cells,

**IHC :** human pancreas cancer tissue, human testis tissue

**IF/ICC :** A431 cells, HeLa cells

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

## 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 a rabbit polyclonal antibody 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
Ser Yue Loo	34580286	Cell Death Discov	IHC
Fang Guo	32951004	Cell Death Dis	ChIP
Hironori Bando	30283439	Front Immunol	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

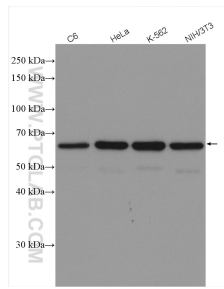
T: 4006900926

E: Proteintech-CN@ptglab.com

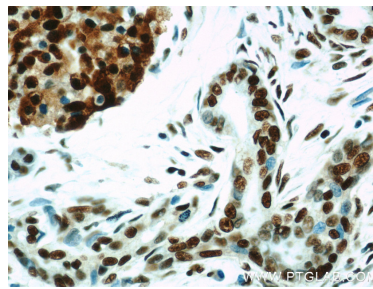
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

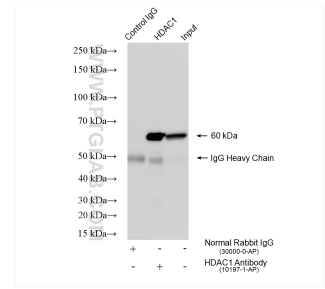
## Selected Validation Data



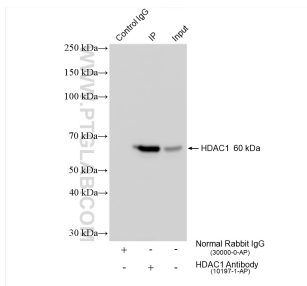
Various lysates were subjected to SDS PAGE followed by western blot with 10197-1-AP (HDAC1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



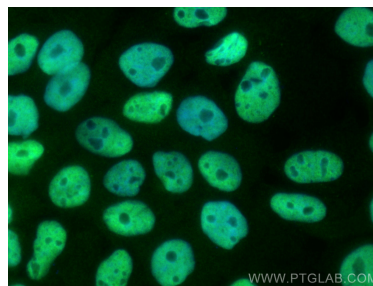
Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 10197-1-AP (HDAC1 antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-HDAC1 (IP:10197-1-AP, 4ug; Detection:10197-1-AP 1:6000) with HeLa cells lysate 1600 ug.



IP result of anti-HDAC1 (IP:10197-1-AP, 4ug; Detection:10197-1-AP 1:20000) with HeLa cells lysate 1280 ug.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using HDAC1 antibody (10197-1-AP) at dilution of 1:400 and Multi-rAb CoraLite Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).