

HDAC1 Polyclonal antibody

Catalog Number: 10197-1-AP

Featured Product

79 Publications

Basic Information

Catalog Number:

10197-1-AP

Size:

150ul, Concentration: 400 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0256

GenBank Accession Number:

BC000301

GeneID (NCBI):

3065

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 µg for IP and 1:500-1:1000 for WB

IHC 1:50-1:500

IF 1:300-1:1200

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications:

ChIP, CoIP, IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

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

IP: mouse testis tissue,

IHC: human pancreas cancer tissue, human testis tissue

IF: 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

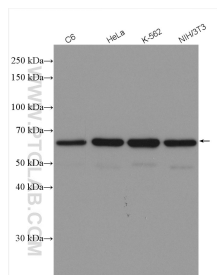
For technical support and original validation data for this product please contact:

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

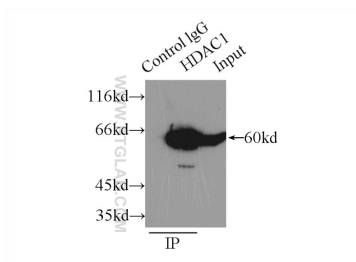
E: proteintech@ptglab.com
W: ptglab.com

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

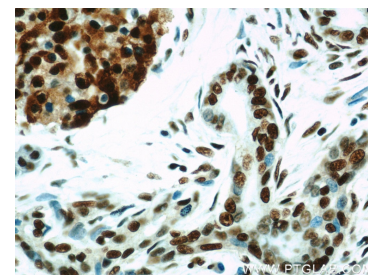
Selected Validation Data



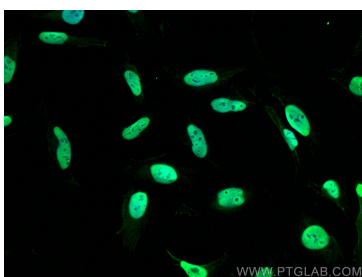
Various lysates were subjected to SDS PAGE followed by western blot with 10197-1-AP (HDAC1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



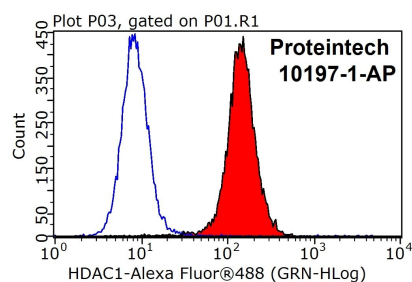
IP Result of anti-HDAC1 (IP: 10197-1-AP, 3ug; Detection: 10197-1-AP 1:500) with mouse testis tissue lysate 10000ug.



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



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HDAC1 antibody (10197-1-AP) at dilution of 1:600 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HeLa cells were stained with 0.2ug HDAC1 antibody (10197-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.