

For Research Use Only

# HDAC3 Polyclonal antibody

Catalog Number: 10255-1-AP

Featured Product

62 Publications



## Basic Information

**Catalog Number:**

10255-1-AP

**Size:**

150ul, Concentration: 500 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0396

**GenBank Accession Number:**

BC000614

**GeneID (NCBI):**

8841

**UNIPROT ID:**

O15379

**Full Name:**

histone deacetylase 3

**Calculated MW:**

49 kDa

**Observed MW:**

49 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:3000

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

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP, chIP

**Species Specificity:**

human

**Cited Species:**

human, mouse, rat

**Positive Controls:**

**WB:** A431 cells, HL-60 cells, HeLa cells, U-251 cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells

**IP:** A431 cells,

**IHC:** human ovary tumor tissue,

**IF/ICC:** K-562 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 acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. Histone deacetylase (HDAC) and histone acetyltransferase (HAT) are enzymes that regulate transcription by selectively deacetylating or acetylating the (-amino groups of lysines located near the amino termini of core histone proteins. At least 4 classes of HDAC were identified. HDAC3 is a class I HDAC. HDAC3 has histone deacetylase activity and may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. HDAC3 can also down-regulate p53 function and thus modulate cell growth and apoptosis. The gene encoding HDAC3 is regarded as a potential tumor suppressor gene. This antibody is a rabbit polyclonal antibody raised against an internal region of human HDAC3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rui Han	36175803	Med Oncol	WB
Zhengrong Gu	36106389	J Clin Lab Anal	IHC
Hairui Yuan	25213552	Acta Physiol (Oxf)	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

\*\*\* 20ul sizes contain 0.1% BSA

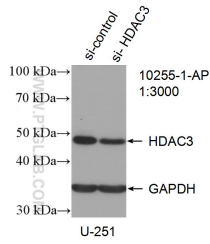
For technical support and original validation data for this product please contact:

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

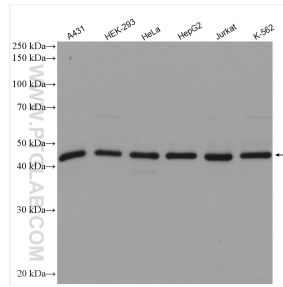
E: proteintech@ptglab.com  
W: ptglab.com

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

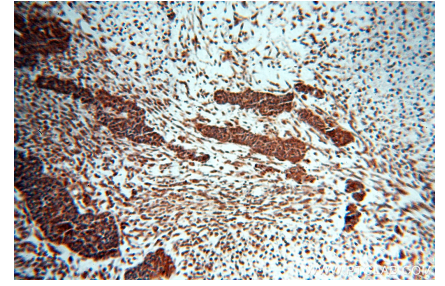
## Selected Validation Data



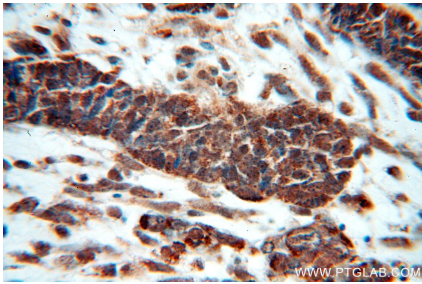
WB result of HDAC3 antibody (10255-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HDAC3 transfected U-251 cells.



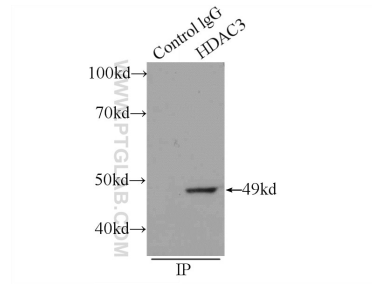
Various lysates were subjected to SDS PAGE followed by western blot with 10255-1-AP (HDAC3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



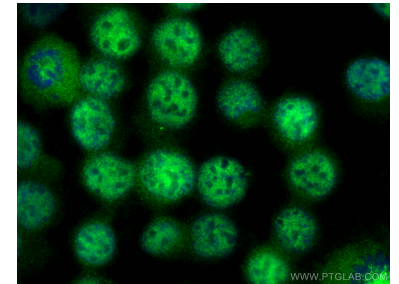
Immunohistochemical analysis of paraffin-embedded human ovary tumor using 10255-1-AP (HDAC3 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tumor using 10255-1-AP (HDAC3 antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-HDAC3 (IP:10255-1-AP, 3ug; Detection:10255-1-AP 1:300) with A431 cells lysate 1200ug.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using HDAC3 antibody (10255-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).