

For Research Use Only

# HDAC3 Polyclonal antibody

Catalog Number: 10255-1-AP

Featured Product

67 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: 1:1000-1:8000

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, mouse, rat

### Cited Species:

human, mouse, rat

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

### Positive Controls:

**WB:** HeLa cells, A431 cells, HAP1 cells, HL-60 cells, U-251 cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, bEnd.3 cells, NIH/3T3 cells, C6 cells, mouse testis tissue, rat testis tissue

**IP:** A431 cells,

**IHC:** human ovary tumor tissue,

**IF/ICC:** K-562 cells,

## 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

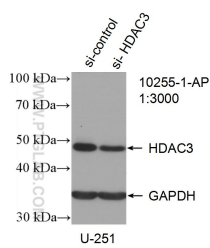
For technical support and original validation data for this product please contact:

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

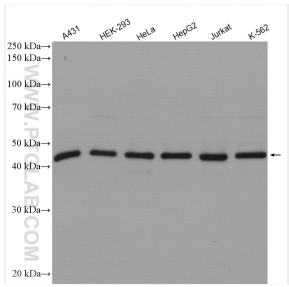
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

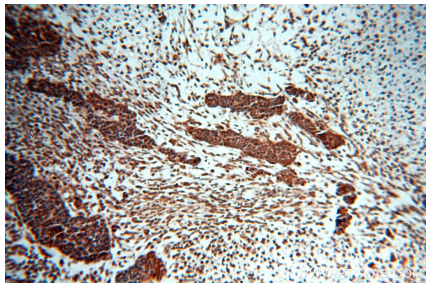
Selected Validation Data



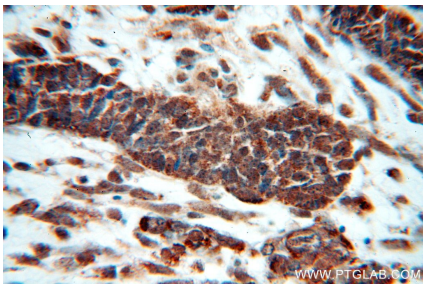
WB result of HDAC3 antibody (10255-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HDAC3 transfected U-251 cells.



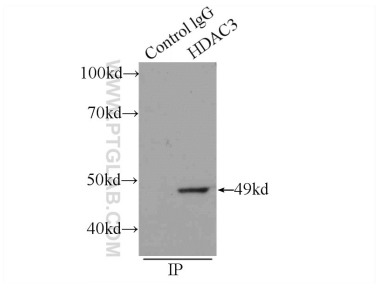
Various lysates were subjected to SDS PAGE followed by western blot with 10255-1-AP (HDAC3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



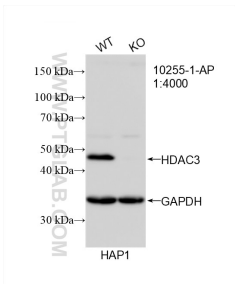
Immunohistochemical analysis of paraffin-embedded human ovary tumor using 10255-1-AP (HDAC3 antibody) at dilution of 1:50 (under 10x lens).



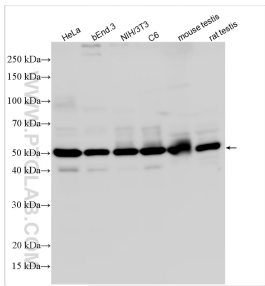
Immunohistochemical analysis of paraffin-embedded human ovary tumor using 10255-1-AP (HDAC3 antibody) at dilution of 1:50 (under 40x lens).



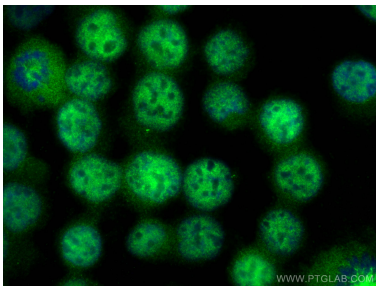
IP result of anti-HDAC3 (IP:10255-1-AP, 3ug; Detection:10255-1-AP 1:300) with A431 cells lysate 1200ug.



WB result of HDAC3 antibody (10255-1-AP; 1:4000; room temperature for 1.5 hours) with wild-type and HDAC3 knockout HAP1 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 10255-1-AP (HDAC3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).