

# HDAC3 Rabbit Polyclonal Antibody



CAB2139

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

47kDa

### Calculated MW:

48kDa/49kDa

### Applications:

WB IHC IF IP ChIP

### Reactivity:

Human, Mouse, Rat

## Antibody Information

### Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50  
- 1:100 IF 1:50 - 1:200 IP  
1:50 - 1:200 ChIP 1:20 -  
1:100

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

## Protein Background

Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene.

## Immunogen information

### Gene ID:

8841

### Uniprot

O15379

### Synonyms:

HD3; RPD3; RPD3-2; HDAC3

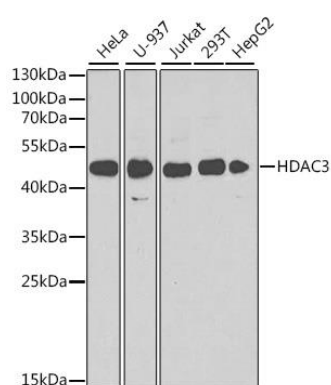
### Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 299-428 of human HDAC3 (NP\_003874.2).

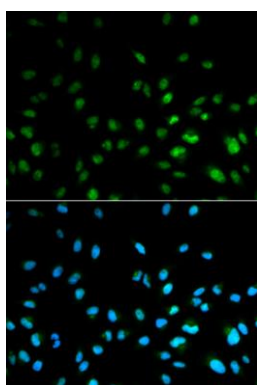
### Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

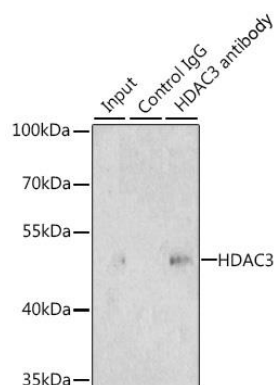
## Product Images



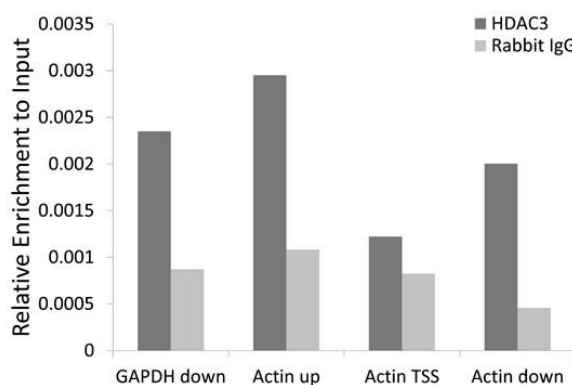
Western blot analysis of extracts of various cell lines, using HDAC3 antibody (CAB2139) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.



Immunofluorescence analysis of MCF-7 cells using HDAC3 antibody (CAB2139). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of 293T cells using 1ug HDAC3 antibody (CAB2139). Western blot was performed from the immunoprecipitate using HDAC3 antibody (CAB2139) at a dilution of 1:1000.



Chromatin immunoprecipitation of extracts of 293T cell line, using HDAC3 antibody (CAB2139) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.