

For Research Use Only

# HDAC4 Polyclonal antibody

Catalog Number: 17449-1-AP

Featured Product

29 Publications



## Basic Information

### Catalog Number:

17449-1-AP

### Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11572

### GenBank Accession Number:

BC039904

### GeneID (NCBI):

9759

### Full Name:

histone deacetylase 4

### Calculated MW:

972 aa, 106 kDa

### Observed MW:

119-140 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

ChIP, CoIP, IF, IHC, WB

### Species Specificity:

human

### Cited Species:

human

### Positive Controls:

**WB**: Jurkat cells, HEK-293 cells, HEK-293T cells, HeLa cells

**IP**: HeLa cells,

**IHC**: human kidney tissue, human cervical cancer tissue

**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

HDAC4, also named as HDACA, belongs to the histone deacetylase family. HDAC4 is responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. HDAC4 is involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D. This antibody is a rabbit polyclonal antibody raised against an internal region of human HDAC4. The calculated molecular weight of HDAC4 is 106 kDa, but modified HDAC4 is about 140 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Aiwen Jiang	34694913	Mol Cell Biol	WB
Bin He	30443188	Int J Biol Sci	WB
Wanxin Shi	33019979	Biochem Biophys Res Commun	IF

## 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

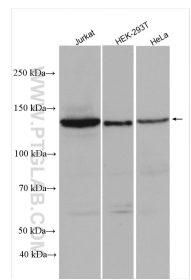
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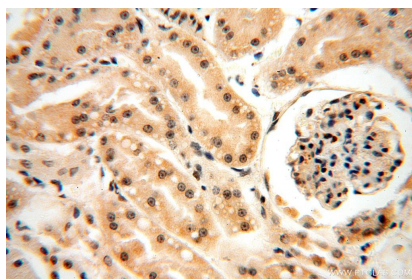
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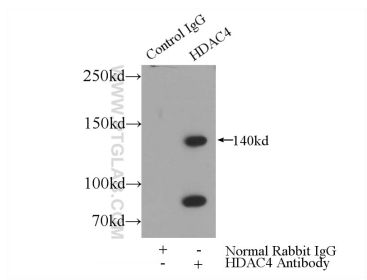
Selected Validation Data



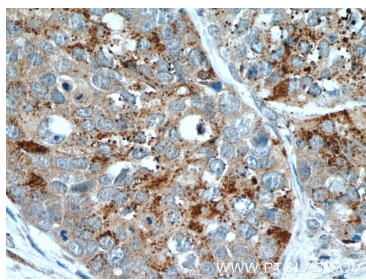
Various lysates were subjected to SDS PAGE followed by western blot with 17449-1-AP (HDAC4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 17449-1-AP (HDAC4 antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-HDAC4 (IP:17449-1-AP, 4ug; Detection:17449-1-AP 1:500) with HeLa cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 17449-1-AP (HDAC4 Antibody) at dilution of 1:50 (under 40x lens).