

# [KO Validated] HDAC8 Rabbit mAb

Catalog No.: A8865

KO Validated
Recombinant
4 Publications

## Basic Information

### Observed MW

42kDa

### Calculated MW

42kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, IP, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC1331

## 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 class I of the histone deacetylase family. It catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. Multiple transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

**WB** 1:1000 - 1:4000

**IHC-P** 1:100 - 1:1000

**IF/ICC** 1:100 - 1:1000

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

### Gene ID

55869

### Swiss Prot

Q9BY41

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human HDAC8 (Q9BY41).

### Synonyms

HD8; WTS; RPD3; CDA07; CDLS5; KDAC8; MRXS6; HDACL1; C8

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

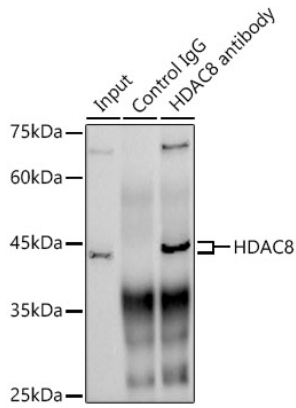
Affinity purification

### Storage

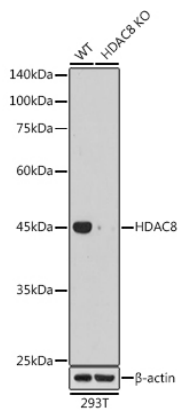
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

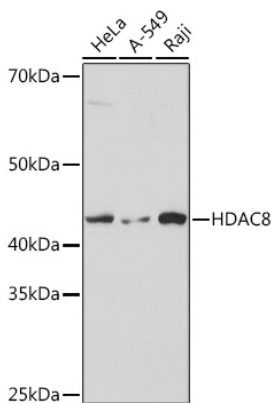
## Validation Data



Immunoprecipitation analysis of 300 µg extracts from HeLa cells using 3 µg HDAC8 antibody (A8865). Western blot was performed from the immunoprecipitate using HDAC8 antibody (A8865) at a dilution of 1:1000.

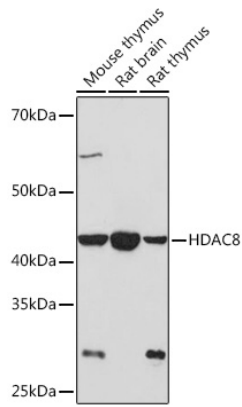


Western blot analysis of lysates from wild type (WT) and HDAC8 knockout (KO) 293T cells, using [KO Validated] HDAC8 Rabbit mAb (A8865) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

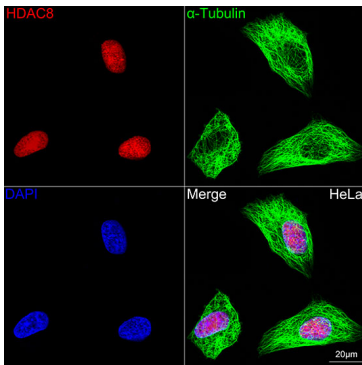


Western blot analysis of various lysates using HDAC8 Rabbit mAb (A8865) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

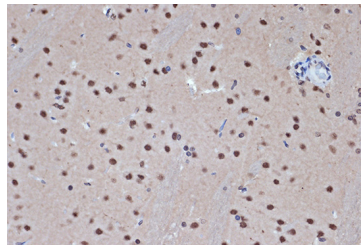
## Validation Data



Western blot analysis of various lysates using HDAC8 Rabbit mAb (A8865) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3min.



Confocal imaging of HeLa cells using [KO Validated] HDAC8 Rabbit mAb (A8865, dilution 1:100) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Rat brain using HDAC8 Rabbit mAb (A8865) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.