

A8865

Leader in Biomolecular Solutions for Life Science



## [KO Validated] HDAC8 Rabbit mAb

Catalog No.: A8865

**KO** Validated

Recombinant

4 Publications

### Basic Information

#### Observed MW

42kDa

#### Calculated MW

42kDa

#### Category

SMab Recombinant Monoclonal  
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

|               |  |
|---------------|--|
| <b>WB</b>     | 1:1000 - 1:4000  |
| <b>IHC-P</b>  | 1:100 - 1:1000   |
| <b>IF/ICC</b> | 1:100 - 1:1000   |
| <b>IP</b>     | 0.5µg-4µg antibody for<br>200µg-400µg extracts<br>of whole cells   |
| <b>ELISA</b>  | Recommended starting<br>concentration is 1<br>µg/mL. Please optimize<br>the concentration<br>based on your specific<br>assay requirements. |

### 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.

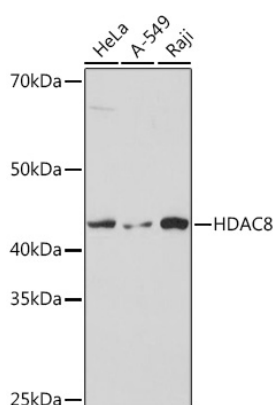
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

### Contact

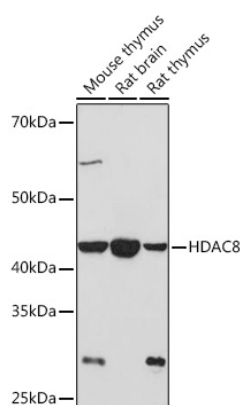


[www.abclonal.com](http://www.abclonal.com)

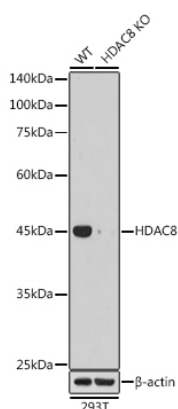
## Validation Data



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: 1s.

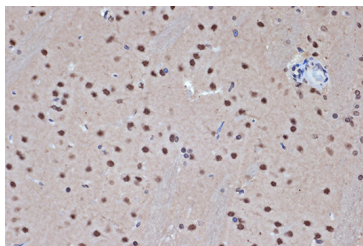


Western blot analysis of various lysates using HDAC8 Rabbit mAb (A8865) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).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

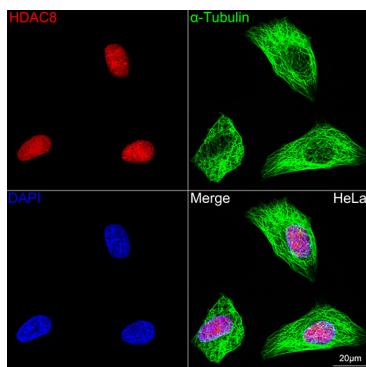


Western blot analysis of lysates from wild type (WT) and HDAC8 knockout (KO) 293T cells, using [KO Validated] HDAC8 Rabbit mAb (A8865) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: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

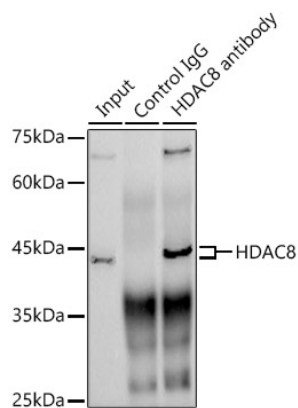
## Validation Data



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.



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.



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