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# HDAC2 Rabbit mAb

**Catalog No.: A28990** Recombinant

## Basic Information

**Observed MW**
60 kDa

**Calculated MW**
52 kDa/55 kDa

**Category**
Primary antibody

**Applications**
WB,IP,IF/ICC,IF-F,IF-P,IHC-P,ELISA

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC3366

## Background

This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). This protein forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternative splicing results in multiple transcript variants.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:4000 - 1:25000 |
| **IP** | 0.5 µg - 4 µg antibody for 200 µg - 600 µg extracts of whole cells |
| **IF/ICC** | 1:1000 - 1:4000 |
| **IF-F** | 1:1000 - 1:4000 |
| **IF-P** | 1:1000 - 1:4000 |
| **IHC-P** | 1:4000 - 1:16000 |
| **ChIP** | 2 µg antibody for 10 µg - 15 µg of Chromatin |
| **ELISA** | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)□a sequential |

## Immunogen Information

**Gene ID**
3066

**Swiss Prot**
Q92769

**Immunogen**
This information is considered to be commercially sensitive.

**Synonyms**
HD2; RPD3; YAF1; KDAC2

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

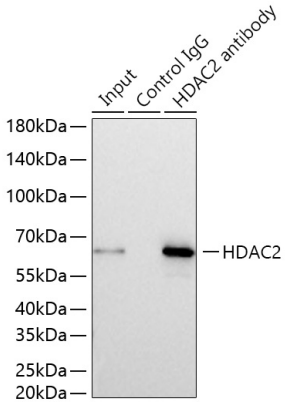
**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3

dilution method is
strongly recommended
to ensure measur

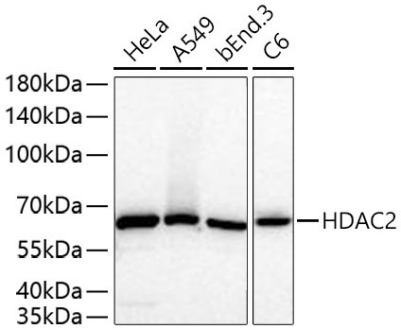
## Contact


| | |
|---|---|
| ☎ | 400-999-6126 |
| ✉ | cn.market@abclonal.com.cn |
| 🌐 | www.abclonal.com.cn |

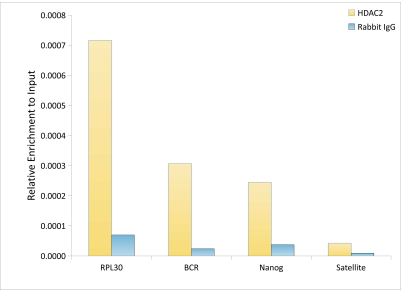
## Validation Data



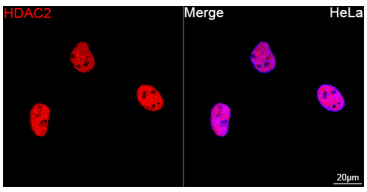

Immunoprecipitation of HDAC2 from 300 µg extracts of HeLa cells was performed using 2 µg of HDAC2 Rabbit mAb (A28990). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using HDAC2 Rabbit mAb (A28990) at a dilution of 1:1000.



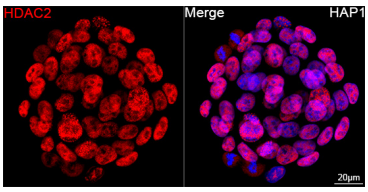

Western blot analysis of various lysates using HDAC2 Rabbit mAb (A28990) at 1:9000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.



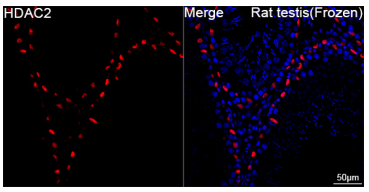

Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from K-562 cells, using 2 µg of HDAC2 Rabbit mAb(A28990) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.




Confocal imaging of HeLa cells using HDAC2




Confocal imaging of HAP1 cells using HDAC2




Confocal imaging of frozen sections of Rat

## Validation Data

Rabbit mAb (A28990, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

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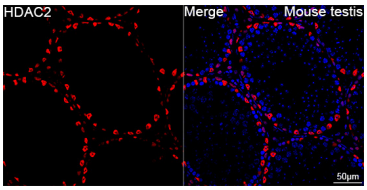
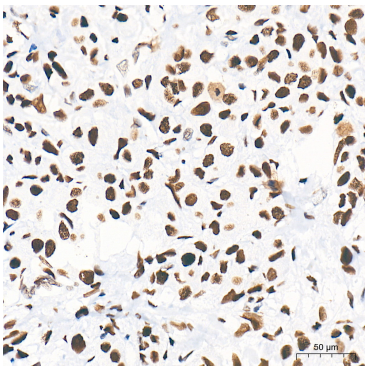
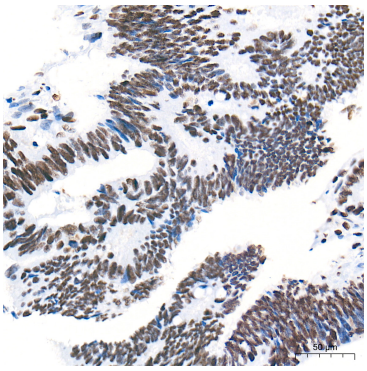
testis tissue using HDAC2 Rabbit mAb (A28990, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



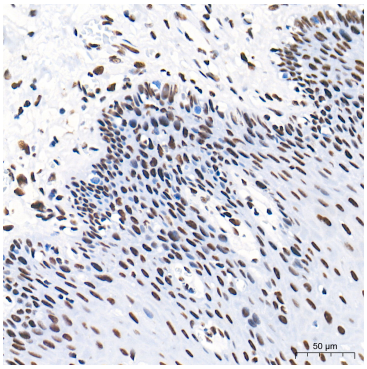



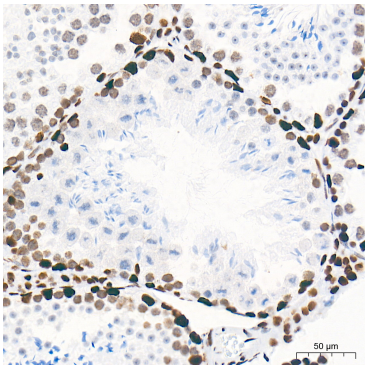



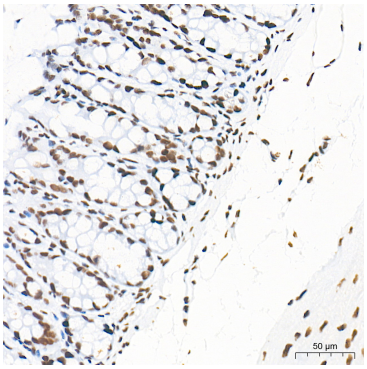

Confocal imaging of paraffin-embedded Mouse testis tissue using HDAC2 Rabbit mAb (A28990, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using HDAC2 Rabbit mAb (A28990) at a dilution of 1:15000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using HDAC2 Rabbit mAb (A28990) at a dilution of 1:15000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



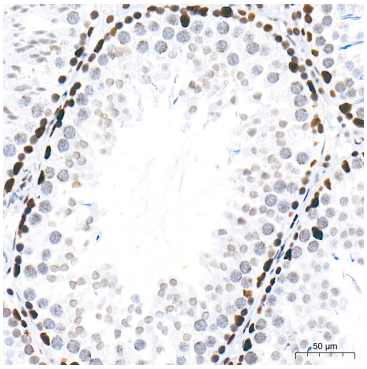




Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using HDAC2 Rabbit mAb (A28990) at a dilution of 1:15000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using HDAC2 Rabbit mAb (A28990) at a dilution of 1:15000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using HDAC2 Rabbit mAb (A28990) at a dilution of 1:15000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



## Validation Data

Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using HDAC2 Rabbit mAb (A28990) at a dilution of 1:15000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.