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[KO Validated] HDAC1 Rabbit mAb

Catalog No.: A26492 KO Validated Recombinant

Basic Information

Observed MW
65kDa

Calculated MW
55kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse

CloneNo number
ARC70626

Background

Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis.

Recommended Dilutions

WB	1:12500 - 1:50000
IHC-P	1:5000 - 1:20000
IF/ICC	1:2000 - 1:8000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
CHIP	3μg antibody for 10μg-15μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
3065

Swiss Prot
Q13547

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
HD1; RPD3; KDAC1; GON-10; RPD3L1

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.

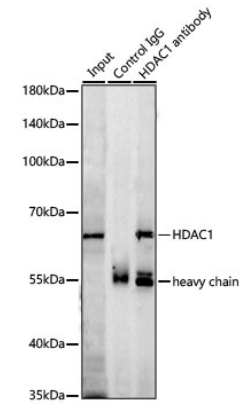
Contact

400-999-6126

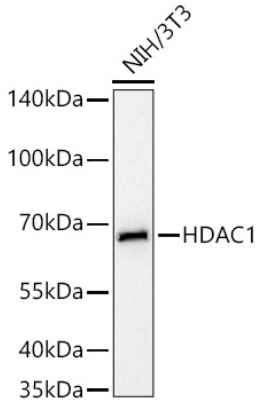
cn.market@abclonal.com.cn

www.abclonal.com.cn

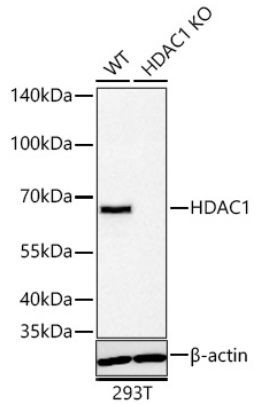
Validation Data



Immunoprecipitation of HDAC1 from 300 µg extracts of 293T cells was performed using 0.5 µg of [KO Validated] HDAC1 Rabbit mAb (A26492). Rabbit IgG isotype control (AC042) 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 [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1 : 5000.

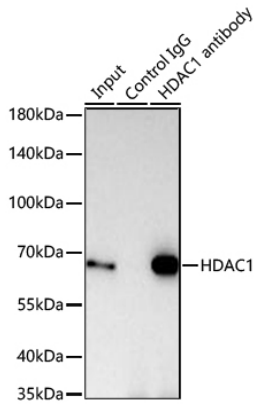


Western blot analysis of lysates from NIH/3T3 cells using [KO Validated] HDAC1 Rabbit mAb (A26492) at 1:25000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

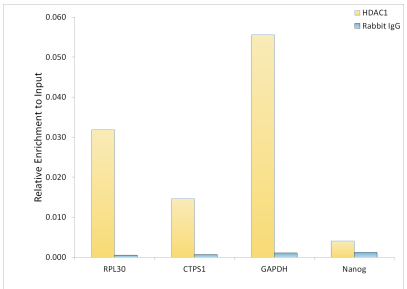


Western blot analysis of lysates from wild type (WT) and HDAC1 knockout (KO) 293T cells using [KO Validated] HDAC1 Rabbit mAb (A26492) at 1:25000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

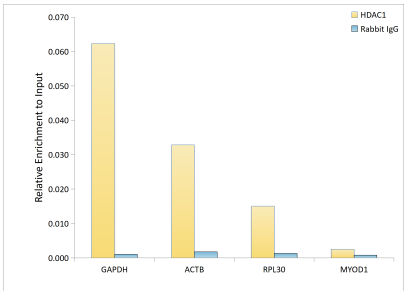
Validation Data



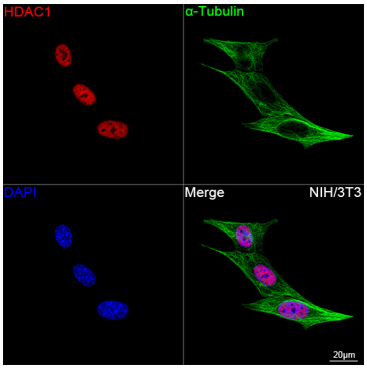
Immunoprecipitation of HDAC1 from 300 µg extracts of NIH/3T3 cells was performed using 1 µg of [KO Validated] HDAC1 Rabbit mAb (A26492). Rabbit IgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000.



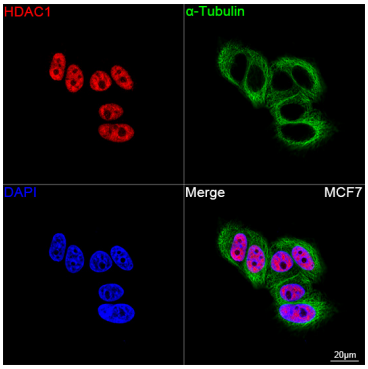
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from K-562, using 3 µg of [KO Validated] HDAC1 Rabbit mAb (A26492) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



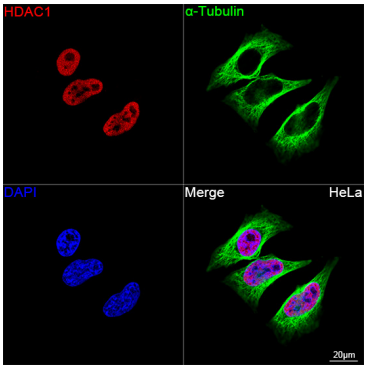
Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from NIH/3T3, using 2 µg of [KO Validated] HDAC1 Rabbit mAb (A26492) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Confocal imaging of NIH/3T3 cells using [KO Validated] HDAC1 Rabbit mAb (A26492, dilution 1:2000) followed by a further



Confocal imaging of MCF7 cells using [KO Validated] HDAC1 Rabbit mAb (A26492, dilution 1:2000) followed by a further



Confocal imaging of HeLa cells using [KO Validated] HDAC1 Rabbit mAb (A26492, dilution 1:2000) followed by a further

incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

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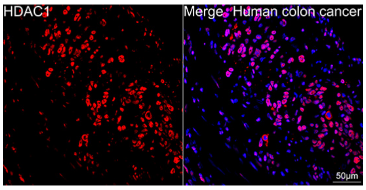
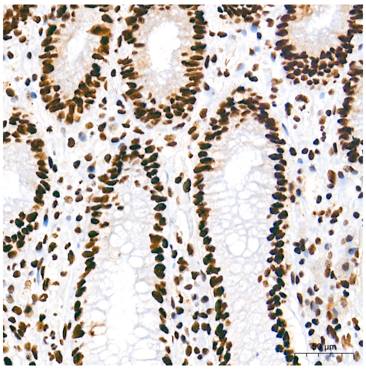
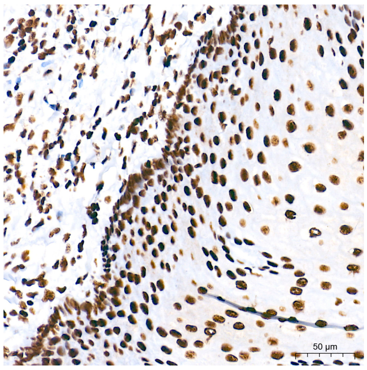


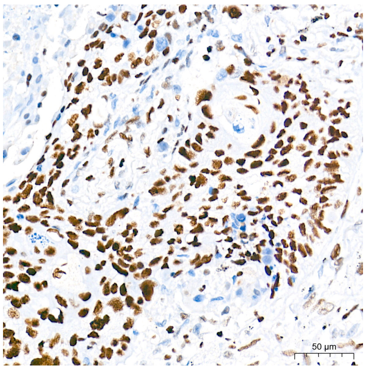
Confocal imaging of paraffin-embedded Human colon cancer tissue using [KO Validated] HDAC1 Rabbit mAb (A26492, dilution 1:4000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



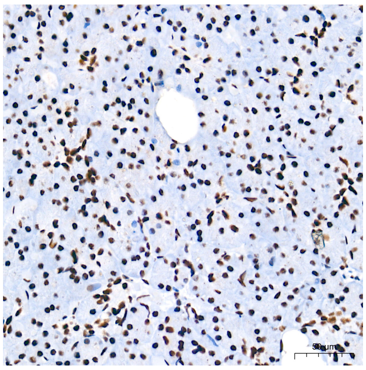
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



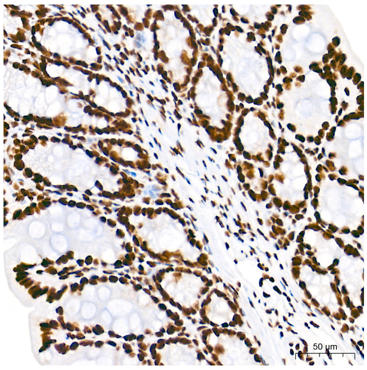
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung squamous carcinoma tissue using [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

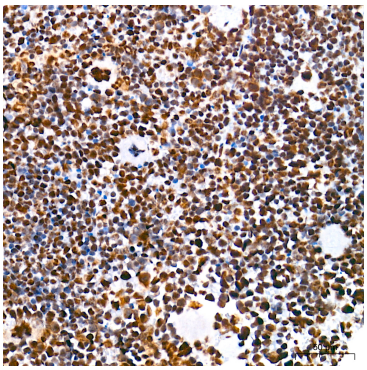


Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

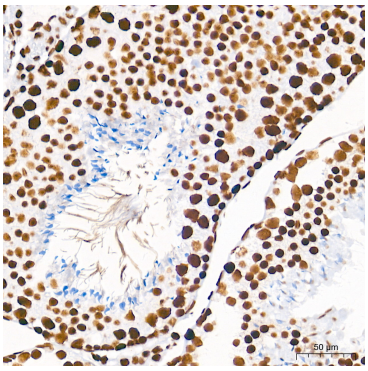


Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000 (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 [KO Validated] HDAC1 Rabbit mAb (A26492) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.