

HDAC1 Rabbit pAb

Catalog NO.: A0238SP **25 Publications**

Basic Information

Observed MW

62 kDa

Calculated MW

55 kDa

Category

Polyclonal Antibodies

Applications

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

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

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

Immunogen Information

WB 1:1000 - 1:3000

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

IF/ICC 1:1000 - 1:10000
IF-P 1:100 - 1:200

IHC-P 1:500 - 1:2000

ChIP 2 µg antibody for 10 µg - 25 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 ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Contact

☐		order@abclonal.com
☐		service@abclonal.com
☐		www.abclonal.com

Gene ID
3065

Immunogen

This information is considered to be commercially sensitive.

Synonyms

HD1; RPD3; KDAC1; GON-10; RPD3L1; C1

Swiss Prot
Q13547

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Validation Data

Western blot analysis of various lysates using HDAC1 Rabbit pAb (A0238SP) at 1:1000 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.



Immunoprecipitation of HDAC1 from 300 µg extracts of 293F cells was performed using 3 µg of HDAC1 Rabbit pAb (A0238SP). 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 HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:1000.

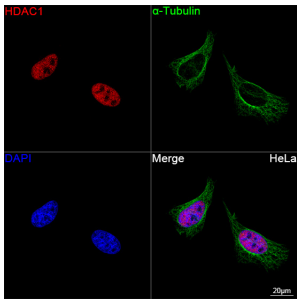


Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

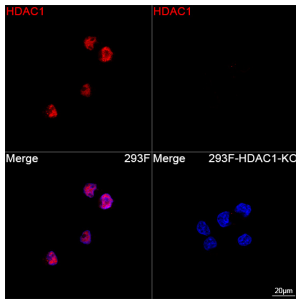
Immunohistochemistry analysis of paraffin-embedded Human breast tissue using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:1600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

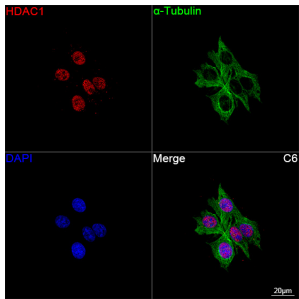
Validation Data



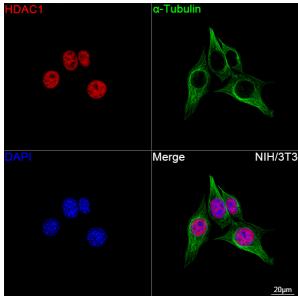
Confocal imaging of HeLa cells using HDAC1 Rabbit pAb (A0238SP, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo[®] 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of 293F cells and HDAC1 knockout (KO) 293F cells using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:1000 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Confocal imaging of C6 cells using HDAC1 Rabbit pAb (A0238SP, dilution 1:1000) followed by a further incubation with Cy3-conjugated 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.



Confocal imaging of NIH/3T3 cells using HDAC1 Rabbit pAb (A0238SP, dilution 1:1000) followed by a further incubation with Cy3-conjugated 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.



Immunofluorescence analysis of Human tonsil tissue using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.

