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HDAC1 Rabbit pAb

Catalog No.: A0238SP **25 Publications**

Basic Information

Observed MW
62 kDa

Calculated MW
55 kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

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	1:1000 - 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 (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement

Immunogen Information

Gene ID
3065

Swiss Prot
Q13547

Immunogen
This information is considered to be commercially sensitive.

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. 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.

accuracy.

Contact

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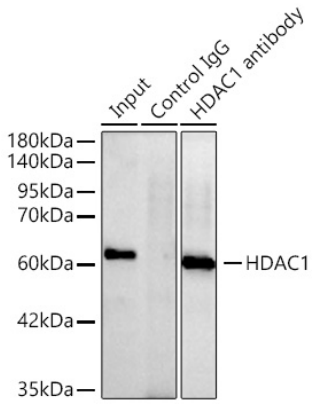
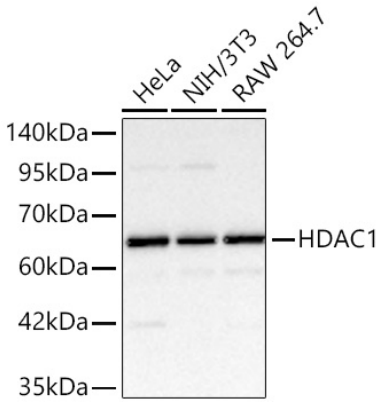
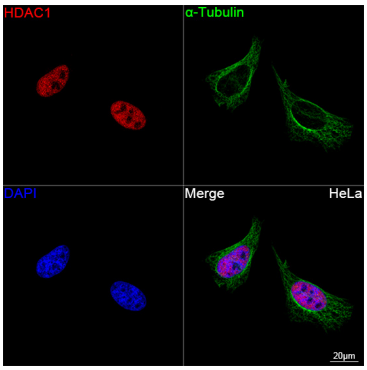
Validation Data



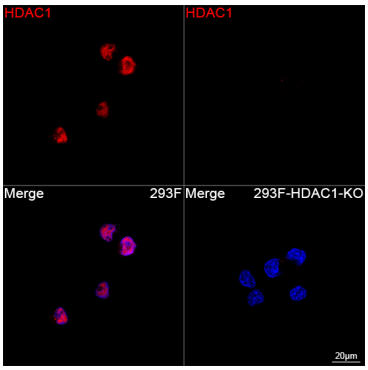
Immunoprecipitation of HDAC1 from 300 µg extracts of 293F cells was performed using 3 µg of HDAC1 Rabbit pAb (A0238SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:1000.



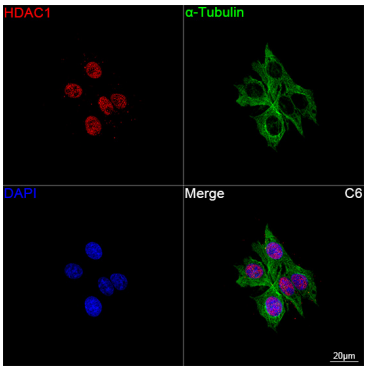
Western blot analysis of various lysates using HDAC1 Rabbit pAb (A0238SP) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.



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.

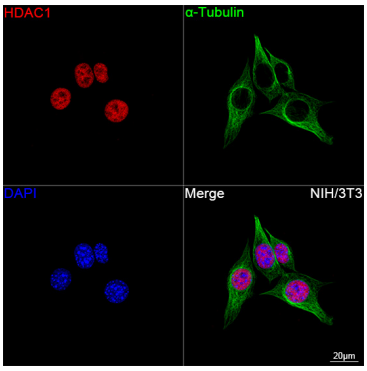


Confocal imaging of 293F cells and HDAC1 knockout (KO) 293F cells using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:1000 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

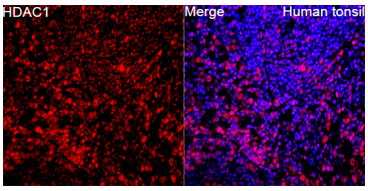


Confocal imaging of C6 cells using HDAC1 Rabbit pAb (A0238SP, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

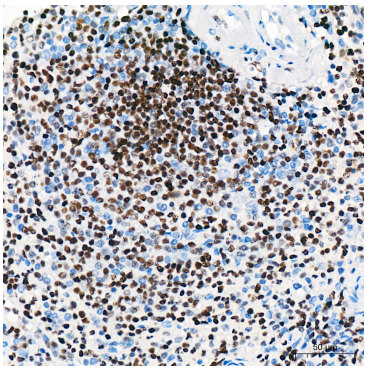
Validation Data



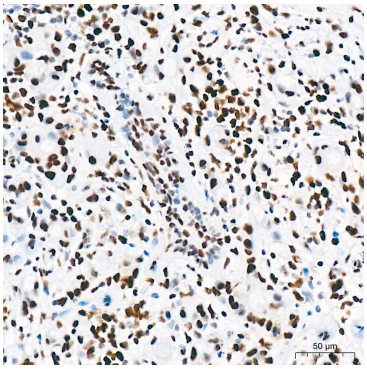
Confocal imaging of NIH/3T3 cells using HDAC1 Rabbit pAb (A0238SP, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



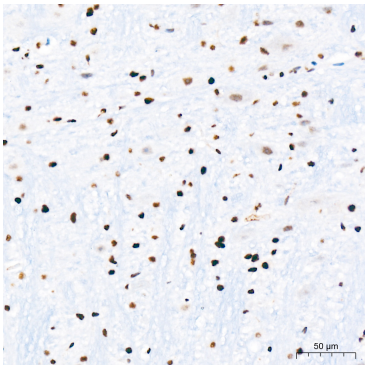
Immunofluorescence analysis of Human tonsil tissue using HDAC1 Rabbit pAb (A0238SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate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



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.