Catalog No.: A0238 19 Publications

[KD Validated] HDAC1 Rabbit pAb



Basic Information

Observed MW

62kDa/

Calculated MW

55kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,IP,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 1:500 - 1:1000

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:100

IP 0.5μg-4μg antibody for

200µg-400µg extracts of

whole cells

ELISA Recommended starting

concentration is 1 μg/mL.

Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene IDSwiss Prot
3065
Q13547

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 393-482 of human HDAC1 (NP_004955.2).

Synonyms

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

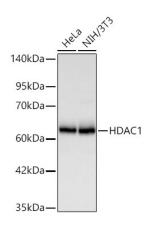
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

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

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



Western blot analysis of various lysates using [KD Validated] HDAC1 Rabbit pAb (A0238) at 1:2000 dilution incubated at room temperature for 1.5 hours.

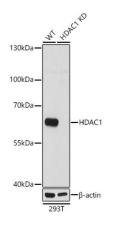
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020)

Exposure time: 20 s.



Western blot analysis of lysates from wild type (WT) and HDAC1 knockdown (KD) 293T cells, using [KD Validated] HDAC1 Rabbit pAb (A0238) at 1:1000 dilution.

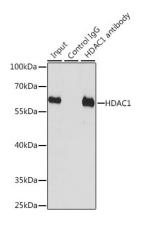
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

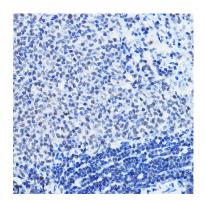
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

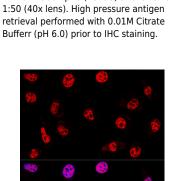
Exposure time: 1s.



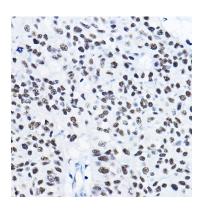
Immunoprecipitation analysis of 200 μg extracts of HT-29 cells, using 3 μg [KD Validated] HDAC1 Rabbit pAb (A0238). Western blot was performed from the immunoprecipitate using HDAC1 antibody (A0238) at a dilution of 1:1000.



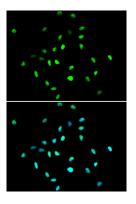
Immunohistochemistry analysis of paraffinembedded Rat spleen using [KD Validated] HDAC1 Rabbit pAb (A0238) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate



Confocal immunofluorescence analysis of L929 cells using [KD Validated] HDAC1 Rabbit pAb (A0238) at dilution of 1:200. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffinembedded Human lung cancer using [KD Validated] HDAC1 Rabbit pAb (A0238) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of A549 cells using [KD Validated] HDAC1 Rabbit pAb (A0238). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffinembedded Human colon using [KD Validated] HDAC1 Rabbit pAb (A0238) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.