Product Name: KD-Validated Histone Deacetylase 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01178

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 55.1kDa

Antigen Information

Gene Name	HDAC1
Alternative Names	HDAC1; Histone Deacetylase; HD1; GON-10; RPD3L1; KDAC1; Protein Decrotonylase HDAC1; Protein Deacetylase HDAC1; EC 3.5.1.98; Reduced Potassium Dependency, Yeast Homolog-Like 1; EC 3.5.1.; RPD3
Gene ID	3065.0
SwissProt ID	Q13547
Immunogen	A synthesized peptide derived from human HDAC1

Background

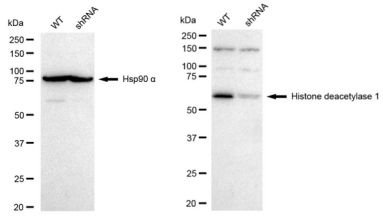
Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic

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. [provided by RefSeq, Jul 2008]

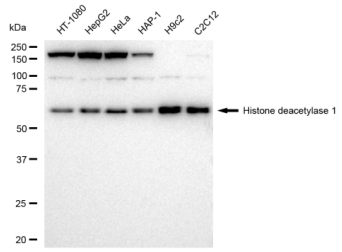
Research Area

Epigenetics and Nuclear Signaling,Stem Cells,Cardiovascular

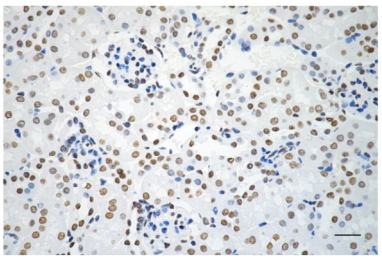
Image Data



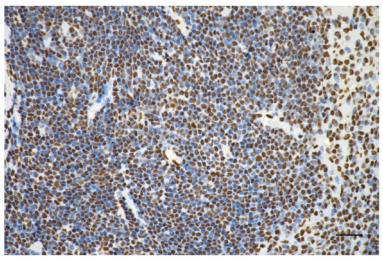
Western blotting analysis using Histone deacetylase 1 antibody (KVAb01178). Histone deacetylase 1 expression in wild type (WT) and Histone deacetylase 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Histone deacetylase 1 antibody (KVAb01178, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



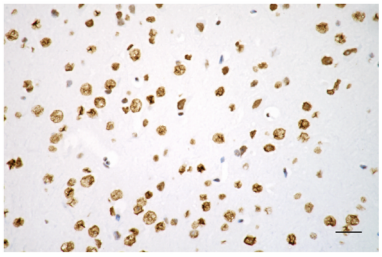
Western blotting analysis using Histone deacetylase 1 antibody (KVAb01178). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Histone deacetylase 1 antibody (KVAb01178, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



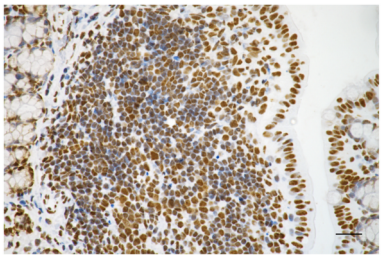
Immunohistochemistry was performed on paraffin-embedded mouse kidney using histone deacetylase 1 antibody (KVAb01178, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



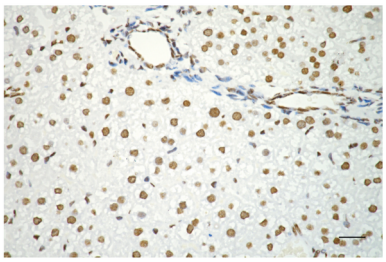
Immunohistochemistry was performed on paraffin-embedded mouse spleen using histone deacetylase 1 antibody (KVAb01178, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



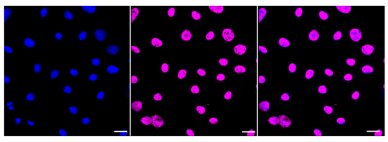
Immunohistochemistry was performed on paraffin-embedded mouse brain using histone deacetylase 1 antibody (KVAb01178, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



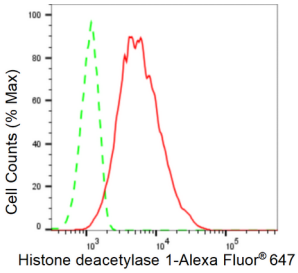
Immunohistochemistry was performed on paraffin-embedded mouse colon tissue using histone deacetylase 1 antibody (KVAb01178, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



Immunohistochemistry was performed on paraffin-embedded mouse liver using histone deacetylase 1 antibody (KVAb01178, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



Immunocytochemical staining of HepG2 cells with Histone deacetylase 1 antibody (KVAb01178, 1:1,000) . Nuclei were stained blue with DAPI; Histone deacetylase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 μm.



Flow cytometric analysis of Histone deacetylase 1 expression in C2C12 cells using Histone deacetylase 1 antibody (KVAb01178, 1:2,000). Green, isotype control; red, Histone deacetylase 1.