Product Name: KD-Validated Histone deacetylase 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01687

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 55.4kDa

Antigen Information

Gene Name	HDAC2
Alternative Names	HDAC2; Histone Deacetylase 2; KDAC2; RPD3; YAF1; Protein Deacylase HDAC2; EC 3.5.1.98; HD2; Transcriptional Regulator Homolog RPD3; YY1-Associated Factor 1; EC 3.5.1.-
Gene ID	3066.0
SwissProt ID	Q92769
Immunogen	A synthesized peptide derived from human HDAC2

Background

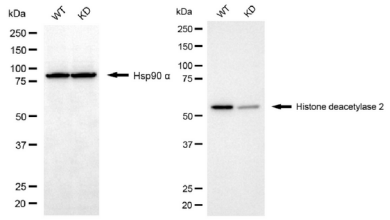
This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B,

H3 and H4). This protein forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]

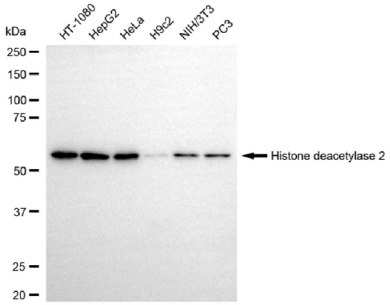
Research Area

Epigenetics and Nuclear Signaling,Stem Cells,Cardiovascular

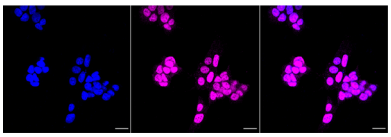
Image Data



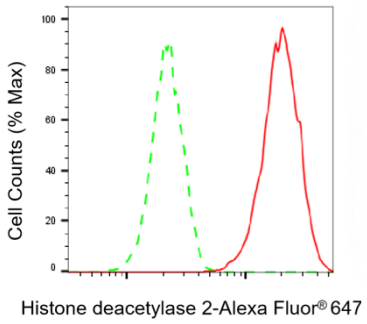
Western blotting analysis using histone deacetylase 2 antibody (KVAb01687). Histone deacetylase 2 expression in wild type (WT) and histone deacetylase 2 (HDAC2) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with histone deacetylase 2 antibody (KVAb01687, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using histone deacetylase 2 antibody (KVAb01687). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with histone deacetylase 2 antibody (KVAb01687, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Histone deacetylase 2 antibody (KVAb01687, 1:1,000). Nuclei were stained blue with DAPI; Histone deacetylase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Histone deacetylase 2 expression in HAP-1 cells using Histone deacetylase 2 antibody (KVAb01687, 1:2,000). Green, isotype control; red, Histone deacetylase 2.