
Product Name: KD-Validated HDAC3 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00755

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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 48.8kDa

Antigen Information

Gene Name	HDAC3
Alternative Names	Histone Deacetylase 3; RPD3-2; HD3 KDAC3; RPD3; Protein Deacetylase HDAC3; Protein Deacetylase HDAC3; EC 3.5.1.98; SMAP45; EC 3.5.1.-
Gene ID	8841.0
SwissProt ID	O15379
Immunogen	A synthesized peptide derived from human HDAC3

Background

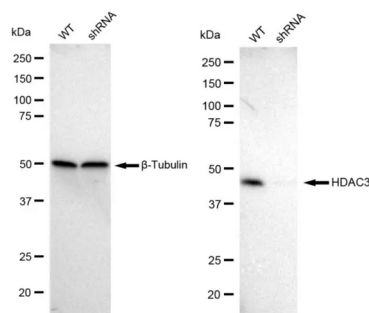
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription

when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008]

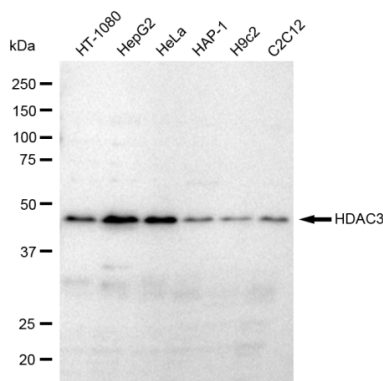
Research Area

Epigenetics and Nuclear Signaling, Stem Cells, Cancer, Metabolism

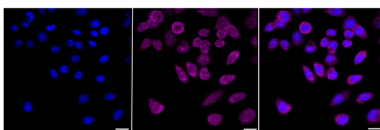
Image Data



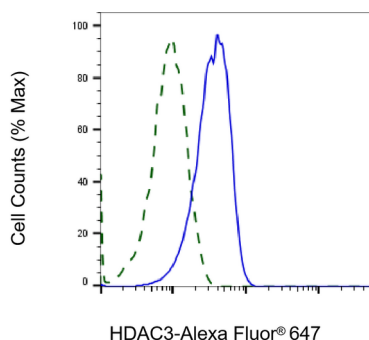
Western blotting analysis using HDAC3 antibody (KVA00755). HDAC3 expression in wild type (WT) and HDAC3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with HDAC3 antibody (KVA00755, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



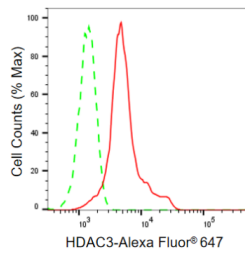
Western blotting analysis using HDAC3 antibody (KVA00755). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HDAC3 antibody (KVA00755, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with HDAC3 antibody (KVA00755, 1:1,000). Nuclei were stained blue with DAPI; HDAC3 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.



Validation of HDAC3 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with HDAC3 antibody (KVA00755, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of HDAC3 expression in HepG2 cells using HDAC3 antibody (KVA00755, 1:2,000). Green, isotype control; red, HDAC3.