
Product Name: KD-Validated Histone Deacetylase 8 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01563**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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 1:4,000-1:20,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 41.8kDa

Antigen Information

Gene Name	HDAC8 HDAC8; Histone Deacetylase 8; HDAC11; KDAC8; RPD3; Protein Deacetylase HDAC8;
Alternative Names	Histone Deacetylase-Like 1; Protein Deacetylase HDAC8; MRXS6; HD8; WTS; Wilson-Turner X-Linked Mental Retardation Syndrome; EC 3.5.1.98; EC 3.5.1.-; CDA07; CDLS5
Gene ID	55869.0
SwissProt ID	Q9BY41
Immunogen	A synthesized peptide derived from human HDAC8

Background

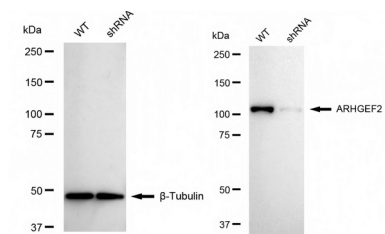
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone

acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class I of the histone deacetylase family. It catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

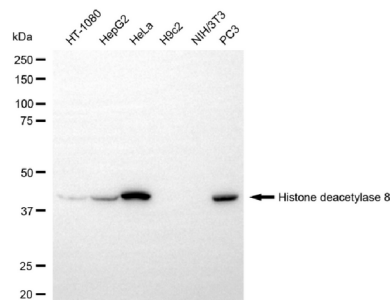
Research Area

Epigenetics and Nuclear Signaling, Stem Cells, Cardiovascular, Neuroscience

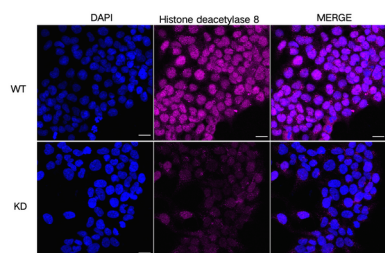
Image Data



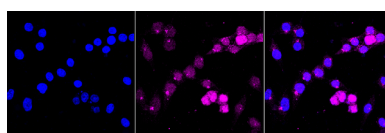
Western blotting analysis using histone deacetylase 8 antibody (KVA01563). Histone deacetylase 8 expression in wild-type (WT) and histone deacetylase 8 (HDAC8) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with histone deacetylase 8 antibody (KVA01563, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



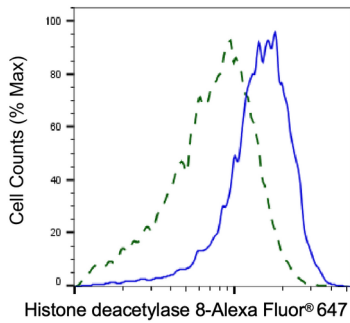
Western blotting analysis using histone deacetylase 8 antibody (KVA01563). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with histone deacetylase 8 antibody (KVA01563, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



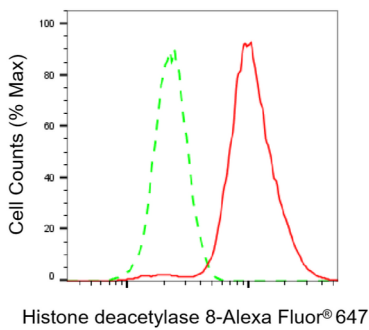
Immunocytochemical staining of HeLa cells using Histone deacetylase 8 antibody (KVA01563, 1:1,000), Top panel: wild-type (WT); Bottom panel: Histone deacetylase 8 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Histone deacetylase 8 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HeLa cells with Histone deacetylase 8 antibody (KVA01563, 1:1,000). Nuclei were stained blue with DAPI; Histone deacetylase 8 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.



Validation of Histone deacetylase 8 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Histone deacetylase 8 antibody (KVA01563, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Histone deacetylase 8 expression in HeLa cells using Histone deacetylase 8 antibody (KVA01563, 1:2,000). Green, isotype control; red, Histone deacetylase 8.