
Product Name: KD-Validated Histone Deacetylase 9 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01787**

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 1:4,000-1:20,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 111.3kDa

Antigen Information

Gene Name	HDAC9
Alternative Names	HDAC9; Histone Deacetylase 9; HDAC7B; MITR; HD7; KIAA0744; HDAC; Histone Deacetylase 7B; EC 3.5.1.98; HDAC; HD7b; HDRP; HD9; MEF-2 Interacting Transcription Repressor (MITR) Protein; MEF2-Interacting Transcription Repressor MITR; Histone Deacetylase 4/5-Related Protein; Histone Deacetylase-Related Protein; HDAC9FL; ARCND4; HDAC9B
Gene ID	9734.0
SwissProt ID	Q9UKV0
Immunogen	A synthesized peptide derived from human HDAC9

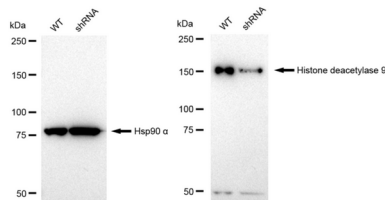
Background

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 has sequence homology to members of the histone deacetylase family. This gene is orthologous to the *Xenopus* and mouse MITR genes. The MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2 activity through recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This encoded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have been described for this gene but the full-length nature of some of them has not been determined. [provided by RefSeq, Jul 2008]

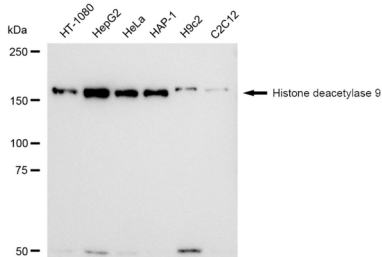
Research Area

Epigenetics and Nuclear Signaling, Cardiovascular, Neuroscience

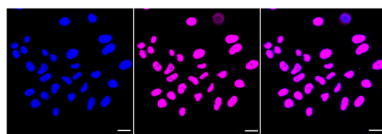
Image Data



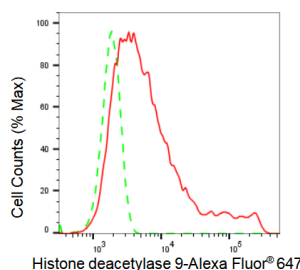
Western blotting analysis using Histone deacetylase 9 antibody (KVA01787). Histone deacetylase 9 expression in wild type (WT) and histone deacetylase 9 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Histone deacetylase 9 antibody (KVA01787, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Histone deacetylase 9 antibody (KVA01787). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Histone deacetylase 9 antibody (KVA01787, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Histone deacetylase 9 antibody (KVA01787, 1:1,000). Nuclei were stained blue with DAPI; Histone deacetylase 9 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 9 expression in HepG2 cells using Histone deacetylase 9 antibody (KVA01787, 1:2,000). Green, isotype control; red, Histone deacetylase 9.