**Product Name:** **KD-Validated Histone Deacetylase 6 Recombinant Rabbit Monoclonal Antibody**

**Catalog #:** **KVAb01048**

For research use only.

## Summary

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|---|---|
| **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 1:4000-1:20,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| **Molecular Weight** | Calculated MW: 131.4kDa |

## Antigen Information

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|---|---|
| **Gene Name** | HDAC6 |
| **Alternative Names** | HDAC6; Histone Deacetylase 6; HD6; KIAA0901; PPP1R90; JM21; Protein Phosphatase 1, Regulatory Subunit 90; Tubulin-Lysine Deacetylase HDAC6; Alpha-Tubulin Deacetylase HDAC6; EC 3.5.1.98; FLJ16239; EC 3.5.1.-; CPBHM; KDAC6 |
| **Gene ID** | 10013.0 |
| **SwissProt ID** | Q9UBN7 |
| **Immunogen** | A synthesized peptide derived from human HDAC6 |

## Background

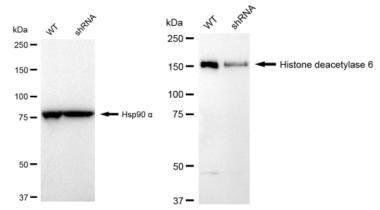
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone

acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/apha family. It contains an internal duplication of two catalytic domains which appear to function independently of each other. This protein possesses histone deacetylase activity and represses transcription. [provided by RefSeq, Jul 2008]

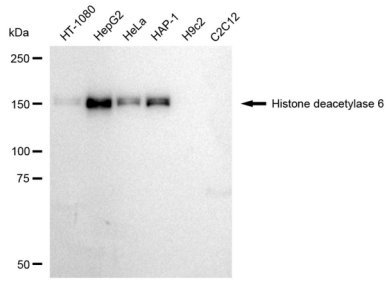
## Research Area

Epigenetics and Nuclear Signaling,Stem Cells

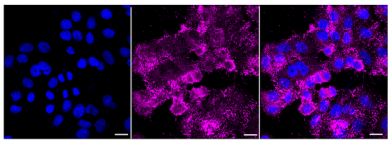
## Image Data



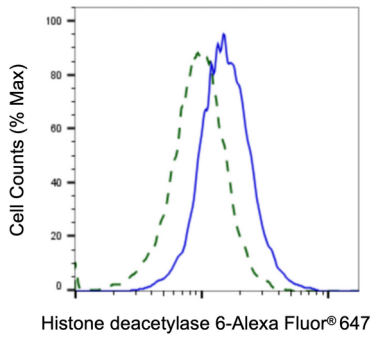

Western blotting analysis using Histone deacetylase 6 antibody (KVAb01048). Histone deacetylase 6 expression in wild type (WT) and Histone deacetylase 6 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Histone deacetylase 6 antibody (KVAb01048, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



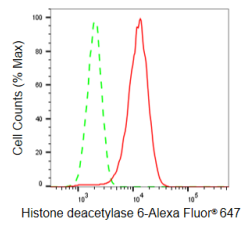

Western blotting analysis using Histone deacetylase 6 antibody (KVAb01048). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Histone deacetylase 6 antibody (KVAb01048, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Histone deacetylase 6 antibody (KVAb01048, 1:1,000) . Nuclei were stained blue with DAPI; Histone deacetylase 6 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 6 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with histone deacetylase 6 antibody (KVAb01048, 1:2,000) and analyzed using BD flow cytometer.




Flow cytometric analysis of Histone deacetylase 6 expression in HepG2 cells using Histone deacetylase 6 antibody (KVAb01048, 1:2,000). Green, isotype control; red, Histone deacetylase 6.