

KD-Validated Anti-Histone deacetylase 8 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1211**Specification****KD-Validated Anti-Histone deacetylase 8 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q9BY41
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 42 kDa; observed, 42 kDa kDa
Gene Name	HDAC8
Aliases	HDAC8; Histone Deacetylase 8; HDACL1; KDAC8; RPD3; Protein Decrotonylase HDAC8; 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
Immunogen	A synthesized peptide derived from human PKM2

KD-Validated Anti-Histone deacetylase 8 Rabbit Monoclonal Antibody - Additional InformationGene ID **55869****Other Names**

Histone deacetylase 8, HD8, 3.5.1.98, Protein deacetylase HDAC8, 3.5.1.-, Protein decrotonylase HDAC8, 3.5.1.-, HDAC8 {ECO:0000303|PubMed:10926844, ECO:0000312|HGNC:HGNC:13315}

KD-Validated Anti-Histone deacetylase 8 Rabbit Monoclonal Antibody - Protein Information**Name** HDAC8 {ECO:0000303|PubMed:10926844, ECO:0000312|HGNC:HGNC:13315}**Function**

Histone deacetylase that catalyzes the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) (PubMed:[10748112](http://www.uniprot.org/citations/10748112), PubMed:[10922473](http://www.uniprot.org/citations/10922473), PubMed:[10926844](http://www.uniprot.org/citations/10926844), PubMed:[14701748](http://www.uniprot.org/citations/14701748), PubMed:[28497810](http://www.uniprot.org/citations/28497810)). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events (PubMed:[10748112](http://www.uniprot.org/citations/10748112), PubMed:[10748112](http://www.uniprot.org/citations/10748112), PubMed:[10748112](http://www.uniprot.org/citations/10748112)).

[10922473](http://www.uniprot.org/citations/10922473), PubMed: [10926844](http://www.uniprot.org/citations/10926844), PubMed: [14701748](http://www.uniprot.org/citations/14701748)). Histone deacetylases act via the formation of large multiprotein complexes (PubMed: [10748112](http://www.uniprot.org/citations/10748112), PubMed: [10922473](http://www.uniprot.org/citations/10922473), PubMed: [10926844](http://www.uniprot.org/citations/10926844), PubMed: [14701748](http://www.uniprot.org/citations/14701748)). Also involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin (PubMed: [22885700](http://www.uniprot.org/citations/22885700)). May play a role in smooth muscle cell contractility (PubMed: [15772115](http://www.uniprot.org/citations/15772115)). In addition to protein deacetylase activity, also has protein-lysine deacylase activity: acts as a protein decrotonylase by mediating decrotonylation ((2E)-butenoyl) of histones (PubMed: [28497810](http://www.uniprot.org/citations/28497810)).

Cellular Location

Nucleus. Chromosome Cytoplasm Note=Excluded from the nucleoli (PubMed:10748112). Found in the cytoplasm of cells showing smooth muscle differentiation (PubMed:15772115, PubMed:16538051).

Tissue Location

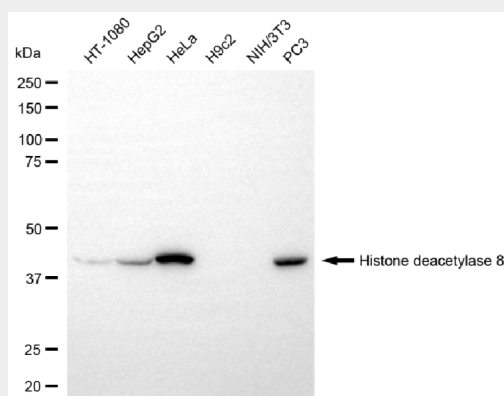
Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.

KD-Validated Anti-Histone deacetylase 8 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

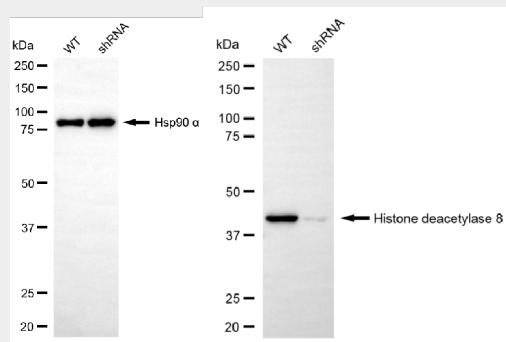
KD-Validated Anti-Histone deacetylase 8 Rabbit Monoclonal Antibody - Images



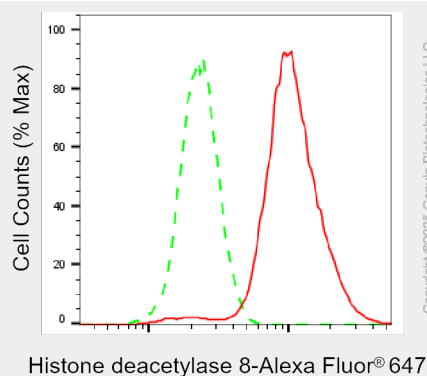
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Western blotting analysis using anti-histone deacetylase 8 antibody (Cat#AGI1211). Total cell

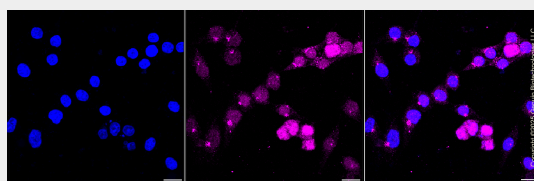
lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-histone deacetylase 8 antibody (Cat#AGI1211, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-histone deacetylase 8 antibody (Cat#AGI1211). 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. Hsp90 α serves as a loading control. The blot was incubated with anti-histone deacetylase 8 antibody (Cat#AGI1211, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Histone deacetylase 8 expression in HeLa cells using Histone deacetylase 8 antibody (Cat#AGI1211, 1:2,000). Green, isotype control; red, Histone deacetylase 8.



Immunocytochemical staining of HeLa cells with anti-Histone deacetylase 8 antibody (Cat#AGI1211, 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.