

HDAC8 Antibody
Rabbit mAb
Catalog # AP90904**Specification****HDAC8 Antibody - Product Information**

Application	WB, FC, IP
Primary Accession	Q9BY41
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Histone deacetylase 8; HD8; HDAC8; HDACL1; CDA07; RPD 3; MRXS6;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	41758 Da

HDAC8 Antibody - Additional Information

Dilution	WB~~1:1000 FC~~1:10~50 IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HDAC8
Description	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. May play a role in smooth muscle cell contractility. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage Condition and Buffer	

HDAC8 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, PubMed:<a

[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:<[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 deacetylase by mediating deacetylation ((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

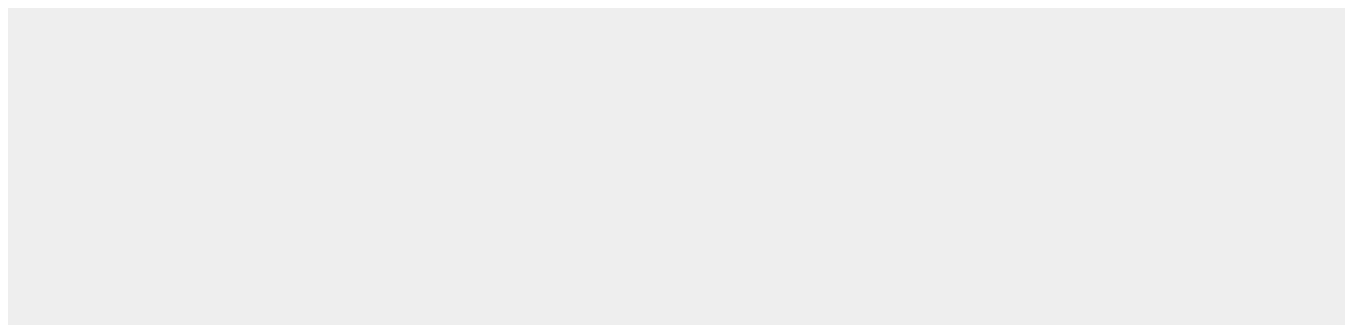
Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.

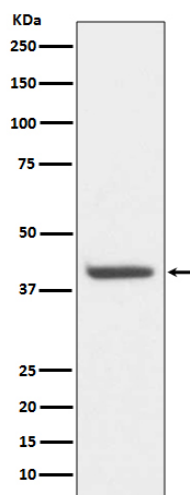
HDAC8 Antibody - Protocols

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](#)

HDAC8 Antibody - Images





Western blot analysis of HDAC8 expression in HeLa cell lysate.