

HDAC8 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11020**Specification**

HDAC8 Antibody - Product Information

Application	WB
Primary Accession	Q9BY41
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41758

HDAC8 Antibody - Additional Information**Gene ID** 55869Positive Control
Application & Usage**Recombinant humanHDAC8**
Western blotting (0.5-4 µg/ml),
immunoprecipitation (10-20 µg/ml), and
Immunohistochemistry (10-20 µg/ml).
However, the optimal concentrations
should be determined individually.**Other Names**

Histone deacetylase 8

Target/Specificity

HDAC8

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-HDAC8 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5mM EDTA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

HDAC8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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:10922473, PubMed:10926844, PubMed:14701748, PubMed: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, PubMed:10922473, PubMed:10926844, PubMed:14701748). Histone deacetylases act via the formation of large multiprotein complexes (PubMed:10748112, PubMed:10922473, PubMed:10926844, PubMed:14701748). Also involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin (PubMed:22885700). May play a role in smooth muscle cell contractility (PubMed: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).

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.

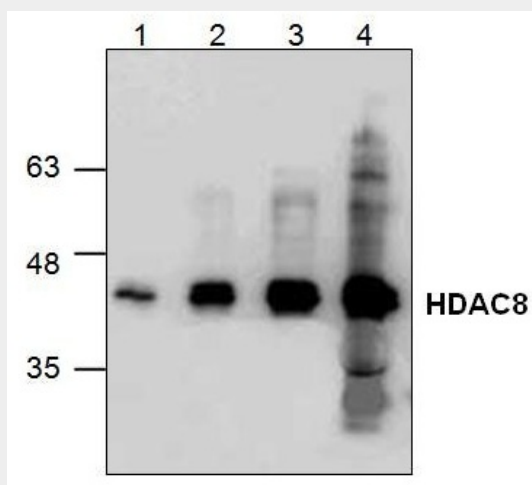
HDAC8 Antibody - Protocols

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 with human Jurkat cell lysates

HDAC8 Antibody - Background

Mammalian HDAC-8, isolated from human kidney, is a member of the histone deacetylase family. HDAC-8 shares homology with other HDACs in the family, but has different tissue distribution. HDAC-8 is localized to the nucleus and plays a role in the tissue development as well as cancer etiology.