

HDAC8 Polyclonal Antibody
Catalog # AP70303**Specification****HDAC8 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	Q9BY41
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal

HDAC8 Polyclonal Antibody - Additional Information**Gene ID** 55869**Other Names**

HDAC8; HDACL1; CDA07; Histone deacetylase 8; HD8

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

HDAC8 Polyclonal 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).

[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

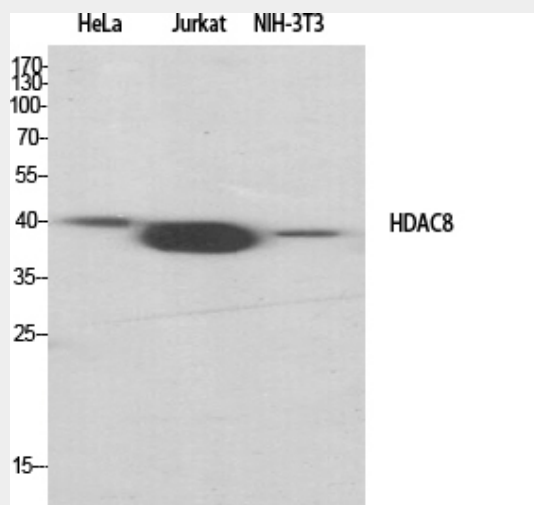
Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.

HDAC8 Polyclonal Antibody - Protocols

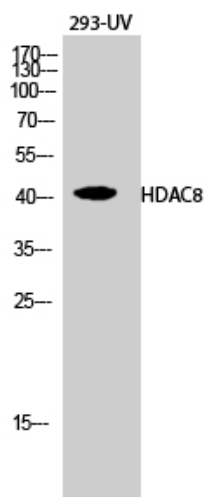
Provided below are standard protocols that you may find useful for product applications.

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

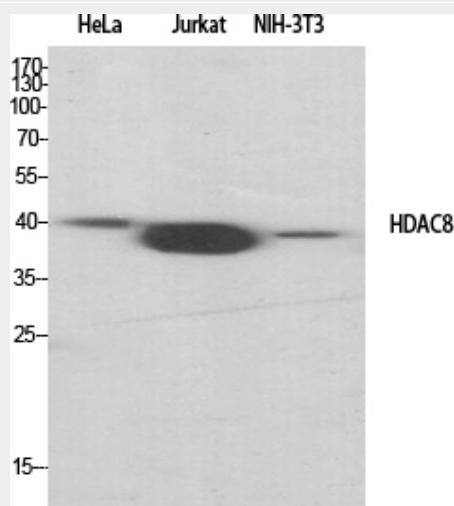
HDAC8 Polyclonal Antibody - Images



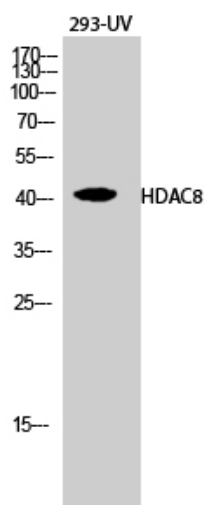
Western Blot analysis of various cells using HDAC8 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of 293-UV cells using HDAC8 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of various cells using HDAC8 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of 293-UV cells using HDAC8 Polyclonal Antibody diluted at 1:1000

HDAC8 Polyclonal Antibody - Background

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. Also involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin. May play a role in smooth muscle cell contractility.