

# Anti-Histone Deacetylase 8 Antibody

Rabbit polyclonal antibody to Histone Deacetylase 8

Catalog # AP60307

## Product Information

Application	WB, IHC
Primary Accession	<a href="#">Q9BY41</a>
Other Accession	<a href="#">Q8VH37</a>
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41758

## Additional Information

Gene ID	55869
Other Names	HDACL1; Histone deacetylase 8; HD8
Target/Specificity	Recognizes endogenous levels of Histone Deacetylase 8 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	HDAC8 {ECO:0000303   PubMed:10926844, ECO:0000312   HGNC:HGNC:13315}
Function	<p>Histone deacetylase that catalyzes the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) (PubMed:<a href="#">10748112</a>, PubMed:<a href="#">10922473</a>, PubMed:<a href="#">10926844</a>, PubMed:<a href="#">14701748</a>, PubMed:<a href="#">28497810</a>). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events (PubMed:<a href="#">10748112</a>, PubMed:<a href="#">10922473</a>, PubMed:<a href="#">10926844</a>, PubMed:<a href="#">14701748</a>). Histone deacetylases act via the formation of large multiprotein complexes (PubMed:<a href="#">10748112</a>, PubMed:<a href="#">10922473</a>, PubMed:<a href="#">10926844</a>, PubMed:<a href="#">14701748</a>). Also involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin (PubMed:<a href="#">22885700</a>). May play a role in smooth muscle cell contractility (PubMed:<a href="#">15772115</a>). In addition to protein deacetylase activity,</p>

also has protein-lysine deacylase activity: acts as a protein deacetylase by mediating deacetylation ((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.

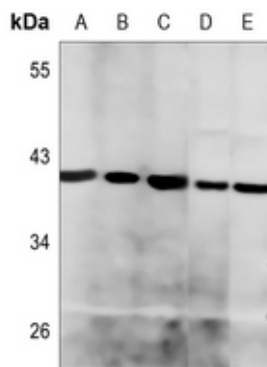
## Background

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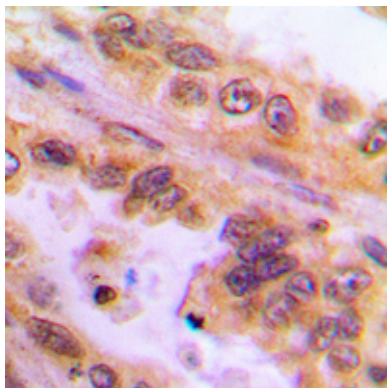
KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Histone Deacetylase 8. The exact sequence is proprietary.

## Images

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Western blot analysis of Histone Deacetylase 8 expression in A549 (A), U2OS (B), DLD (C), mouse testis (D), rat testis (E) whole cell lysates.



Immunohistochemical analysis of Histone Deacetylase 8 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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