

**HDAC8 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1108a****Specification**

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**HDAC8 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9BY41</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41758
Antigen Region	1-30

**HDAC8 Antibody (N-term) - Additional Information****Gene ID** 55869**Other Names**

Histone deacetylase 8, HD8, HDAC8, HDACL1

**Target/Specificity**

This HDAC8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HDAC8.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HDAC8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HDAC8 Antibody (N-term) - 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

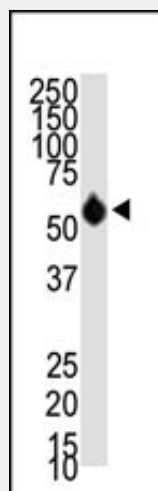
Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.

### HDAC8 Antibody (N-term) - Protocols

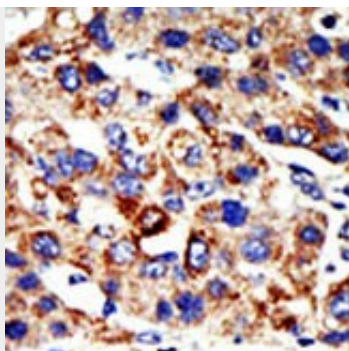
Provided below are standard protocols that you may find useful for product applications.

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

### HDAC8 Antibody (N-term) - Images



Western blot analysis of anti-HDAC8 Pab (Cat. #AP1108a) in mouse 3T3 cell lysate. HDAC8 (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **HDAC8 Antibody (N-term) - Background**

Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class I of the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter.

#### **HDAC8 Antibody (N-term) - References**

McDonell, N., et al., Genomics 64(3):221-229 (2000).  
Hu, E., et al., J. Biol. Chem. 275(20):15254-15264 (2000).  
Van den Wyngaert, I., et al., FEBS Lett. 478 (1-2), 77-83 (2000).  
Buggy, J.J., et al., Biochem. J. 350 Pt 1, 199-205 (2000).