

**HDAC11 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1111a****Specification**

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**HDAC11 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q96DB2</a>
Other Accession	<a href="#">NP_079103</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

**HDAC11 Antibody (N-term) - Additional Information****Gene ID** 79885**Other Names**

Histone deacetylase 11, HD11, HDAC11

**Target/Specificity**

This HDAC11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HDAC11.

**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**

HDAC11 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HDAC11 Antibody (N-term) - Protein Information****Name** HDAC11

**Function** 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.

**Cellular Location**

Nucleus.

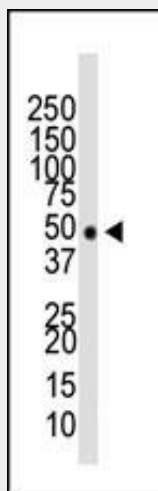
**Tissue Location**

Weakly expressed in most tissues. Strongly expressed in brain, heart, skeletal muscle, kidney and testis

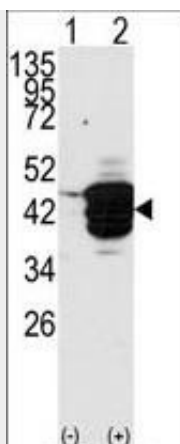
**HDAC11 Antibody (N-term) - Protocols**

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

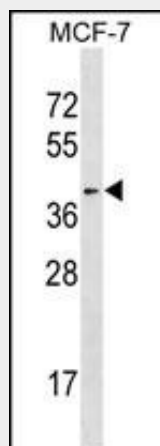
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HDAC11 Antibody (N-term) - Images**

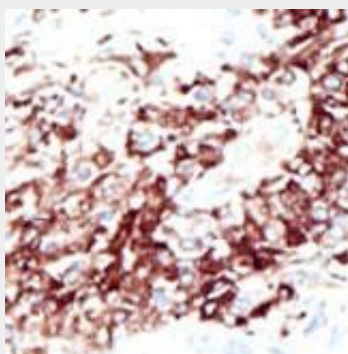
Western blot analysis of anti-HDAC11 Pab (Cat. #AP1111a) in mouse brain tissue lysate. HDAC11 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western blot analysis of HDAC11 (arrow) using HDAC11 Antibody (N-term) (Cat.#AP1111a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the HDAC11 gene (Lane 2) (Origene Technologies).



HDAC11 Antibody (M1) (Cat. #AP1111a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the HDAC11 antibody detected the HDAC11 protein (arrow).



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

#### HDAC11 Antibody (N-term) - Background

HDAC11 is 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. The predominantly nuclear HDAC11, which interacts with HDAC6, is weakly expressed in most tissues, and strongly expressed in brain, heart, skeletal muscle, kidney and testis. Its activity is inhibited by trapoxin, a known histone deacetylase inhibitor.

#### **HDAC11 Antibody (N-term) - References**

Voelter-Mahlknecht S, et al., Int J Mol Med. 2005 Oct;16(4):589-98.  
Bradbury CA, et al., Leukemia. 2005 Oct;19(10):1751-9.  
Gregoret IV, et al., J Mol Biol. 2004 Apr 16;338(1):17-31.  
Gao, L., et al., J. Biol. Chem. 277(28):25748-25755 (2002).

#### **HDAC11 Antibody (N-term) - Citations**

- [Differential histone deacetylase mRNA expression patterns in amyotrophic lateral sclerosis.](#)