

**HDAC10 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10455****Specification**

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**HDAC10 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O969S8</a>
Other Accession	<a href="#">AAL30513</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	71445

**HDAC10 Antibody - Additional Information****Gene ID** 83933**Application & Usage**

Western blotting (0.5-4 µg/ml), However, the optimal concentrations should be determined individually. The antibody recognizes 74 kDa HDAC-10 of human, mouse, and rat origins. A 55 kDa cleavage fragment can also be detected in mouse and rat tissue lysates.

**Other Names**

HD10 , Histone deacetylase 10

**Target/Specificity**

HDAC10

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.2 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

### Precautions

HDAC10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## HDAC10 Antibody - Protein Information

### Name HDAC10

### Function

Polyamine deacetylase (PDAC), which acts preferentially on N(8)-acetylspermidine, and also on acetylcadaverine and acetylputrescine (PubMed:<a href="http://www.uniprot.org/citations/28516954" target="\_blank">28516954</a>). Exhibits attenuated catalytic activity toward N(1),N(8)-diacetylspermidine and very low activity, if any, toward N(1)-acetylspermidine (PubMed:<a href="http://www.uniprot.org/citations/28516954" target="\_blank">28516954</a>). Histone deacetylase activity has been observed in vitro (PubMed:<a href="http://www.uniprot.org/citations/11861901" target="\_blank">11861901</a>, PubMed:<a href="http://www.uniprot.org/citations/11726666" target="\_blank">11726666</a>, PubMed:<a href="http://www.uniprot.org/citations/11677242" target="\_blank">11677242</a>, PubMed:<a href="http://www.uniprot.org/citations/11739383" target="\_blank">11739383</a>). Has also been shown to be involved in MSH2 deacetylation (PubMed:<a href="http://www.uniprot.org/citations/26221039" target="\_blank">26221039</a>). The physiological relevance of protein/histone deacetylase activity is unclear and could be very weak (PubMed:<a href="http://www.uniprot.org/citations/28516954" target="\_blank">28516954</a>). May play a role in the promotion of late stages of autophagy, possibly autophagosome- lysosome fusion and/or lysosomal exocytosis in neuroblastoma cells (PubMed:<a href="http://www.uniprot.org/citations/23801752" target="\_blank">23801752</a>, PubMed:<a href="http://www.uniprot.org/citations/29968769" target="\_blank">29968769</a>). May play a role in homologous recombination (PubMed:<a href="http://www.uniprot.org/citations/21247901" target="\_blank">21247901</a>). May promote DNA mismatch repair (PubMed:<a href="http://www.uniprot.org/citations/26221039" target="\_blank">26221039</a>).

### Cellular Location

Cytoplasm. Nucleus Note=Excluded from nucleoli.

### Tissue Location

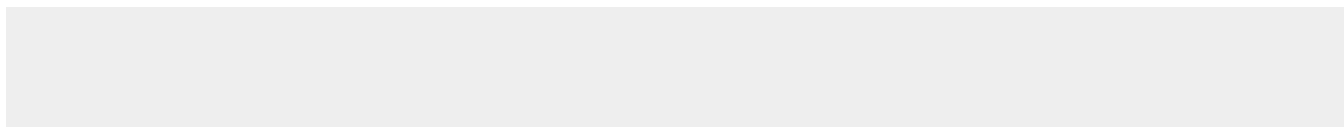
Widely expressed with high levels in liver and kidney.

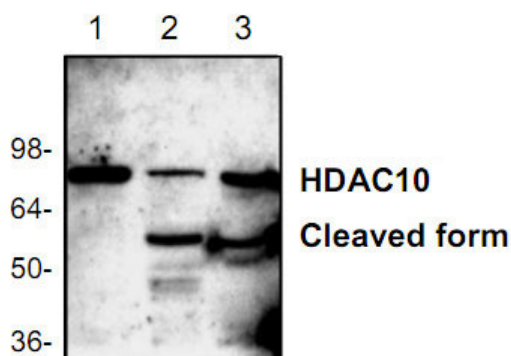
## HDAC10 Antibody - Protocols

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](#)

## HDAC10 Antibody - Images





Western blot analysis of HDAC10 expression. Lane 1: Jurkat Cells; Lane 2: Mouse Intestine; Lane 3: Rat Brain

#### **HDAC10 Antibody - Background**

HDAC family are divided into two classes, I and II. Class I of the HDAC family comprises four members, HDAC-1, 2, 3, and 8. Class II of the HDAC family comprises HDAC-4, 5, 6, and 7, the molecular weights of which are all about two-fold larger than those of the class I members. Human HDAC-1, 2 and 3 were expressed in various tissues, but the others (HDAC-4, 5, 6, and 7) showed tissue-specific expression patterns. These results suggest that each member of the HDAC family exhibits a different, individual substrate specificity and function in vivo.