

HDAC10 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2001a**Specification****HDAC10 Antibody - Product Information**

Application	E, WB, IHC
Primary Accession	Q969S8
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	71.4kDa KDa

Description

The protein encoded by this gene belongs to the histone deacetylase family, members of which deacetylate lysine residues on the N-terminal part of the core histones. Histone deacetylation modulates chromatin structure, and plays an important role in transcriptional regulation, cell cycle progression, and developmental events. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Immunogen

Purified recombinant fragment of human HDAC10 (AA: 18-219) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide.

HDAC10 Antibody - Additional Information

Gene ID 83933

Other Names

Histone deacetylase 10, HD10, 3.5.1.98, HDAC10

Dilution

E~~1/10000

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

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:28516954). Exhibits attenuated catalytic activity toward N(1),N(8)-diacetylspermidine and very low activity, if any, toward N(1)-acetylspermidine (PubMed:28516954). Histone deacetylase activity has been observed in vitro (PubMed:11861901, PubMed:11726666, PubMed:11677242, PubMed:11739383). Has also been shown to be involved in MSH2 deacetylation (PubMed:26221039). The physiological relevance of protein/histone deacetylase activity is unclear and could be very weak (PubMed:28516954). May play a role in the promotion of late stages of autophagy, possibly autophagosome- lysosome fusion and/or lysosomal exocytosis in neuroblastoma cells (PubMed:23801752, PubMed:29968769). May play a role in homologous recombination (PubMed:21247901). May promote DNA mismatch repair (PubMed:26221039).

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](#)

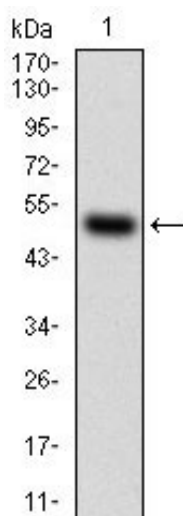
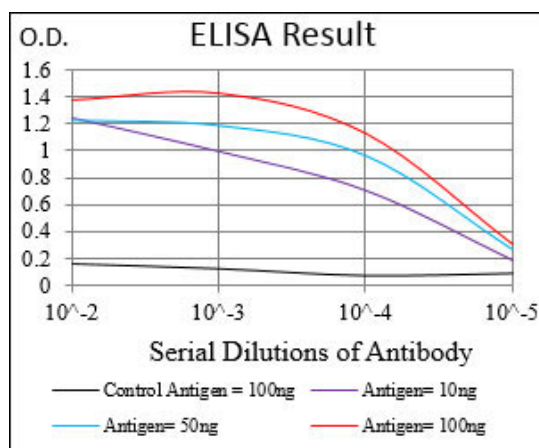


Figure 1: Western blot analysis using HDAC10 mAb against human HDAC10 (AA: 18-219) recombinant protein. (Expected MW is 48.6 kDa)

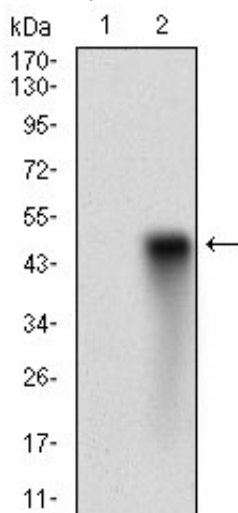


Figure 2: Western blot analysis using HDAC10 mAb against HEK293 (1) and HDAC10 (AA: 18-219)-hlgGfc transfected HEK293 (2) cell lysate.

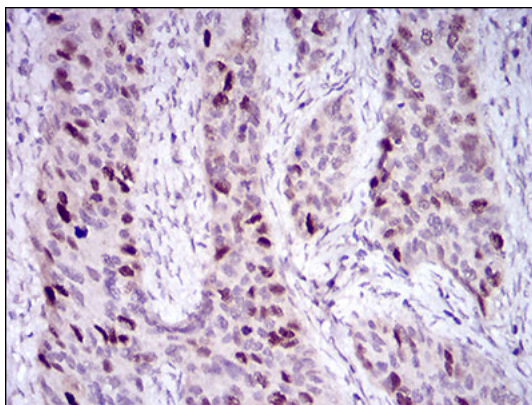


Figure 3: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using HDAC10 mouse mAb with DAB staining.

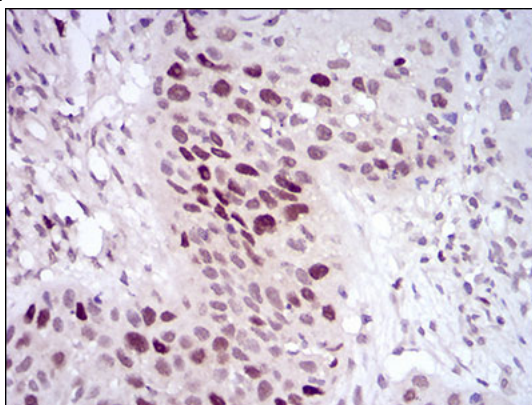


Figure 4: Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using HDAC10 mouse mAb with DAB staining.

HDAC10 Antibody - References

1. J Biol Chem. 2013 Sep 27;288(39):28021-33.
2. Biochem Biophys Res Commun. 2007 Nov 23;363(3):776-81.