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HDAC10 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10455

Specification

HDAC10 Antibody - Product Information

Application	**WB**
Primary Accession	Q969S8
Other Accession	AAL30513
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: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 Cytomety
- Cell Culture

HDAC10 Antibody - Images

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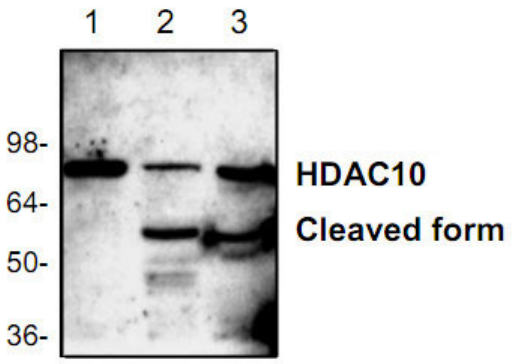

Western blot analysis of HDAC10 expression. Lane 1: Jurkat Cells;Lane 2: Mouse Intestine;Lane 3: Rat Brain

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 s µggest that each member of the HDAC family exhibits a different, individual substrate specificity and function in vivo.