

HDAC-7 Blocking Peptide
Catalog # PBV10261b**Specification**

HDAC-7 Blocking Peptide - Product Information

Primary Accession	Q8C2B3
Gene ID	56233
Calculated MW	101287

HDAC-7 Blocking Peptide - Additional Information**Gene ID** 56233**Application & Usage**

The peptide is used for blocking the antibody activity of HDAC-7. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30 minutes at 37°C.

Other Names

Histone deacetylase 7, HD7, 3.5.1.98, Histone deacetylase 7A, HD7a, Hdac7, Hdac7a

Target/Specificity

HDAC-7

Formulation

50 µg (0.2 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 0.1% BSA and 0.02% sodium azide.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

HDAC-7 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

HDAC-7 Blocking Peptide - Protein Information**Name** Hdac7**Synonyms** Hdac7a**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. Involved in muscle maturation by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Positively regulates the transcriptional repressor activity of FOXP3 (By similarity). Serves as a corepressor of RARA, causing its deacetylation and inhibition of RARE DNA element binding (By similarity). In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response (By similarity).

Cellular Location

Nucleus. Cytoplasm. Note=In the nucleus, it associates with distinct subnuclear dot-like structures. Shuttles between the nucleus and the cytoplasm. In muscle cells, it shuttles into the cytoplasm during myocyte differentiation. The export to cytoplasm depends on the interaction with the 14-3-3 protein YWHAE and is due to its phosphorylation

Tissue Location

Highly expressed in heart and lung. Expressed at intermediate level in muscle.

HDAC-7 Blocking Peptide - 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](#)

HDAC-7 Blocking Peptide - Images