

Product datasheet

HDAC7 peptide ab41709

概述

产品名称 HDAC7肽

描述

性质 Synthetic

技术指标

Our [Abpromise guarantee](#) covers the use of **ab41709** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用 Western blot
Blocking - Blocking peptide for Anti-HDAC7 antibody ([ab1441](#))

形式 Liquid

制备和贮存

稳定性和存储 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Preservative: 0.02% Sodium Azide
Constituents: 0.1% BSA, PBS, pH 7.2

常规信息

功能 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 (By similarity). May be involved in Epstein-Barr virus (EBV) latency, possibly by repressing the viral BZLF1 gene.

序列相似性 Belongs to the histone deacetylase family. HD type 2 subfamily.

结构域 The nuclear export sequence mediates the shuttling between the nucleus and the cytoplasm.

翻译后修饰 May be phosphorylated by CaMK1. Phosphorylated by the PKC kinases PKN1 and PKN2,

impairing nuclear import.

细胞定位

Nucleus. Cytoplasm. In the nucleus, it associates with distinct subnuclear dot-like structures. Shuttles between the nucleus and the cytoplasm. Treatment with EDN1 results in shuttling from the nucleus to the perinuclear region. The export to cytoplasm depends on the interaction with the 14-3-3 protein YWHAE and may be due to its phosphorylation.

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