


Product datasheet

Anti-HDAC7 antibody ab196951

1 Image

Overview

<b>Product name</b>	Anti-HDAC7 antibody
<b>Description</b>	Rabbit polyclonal to HDAC7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic peptide corresponding to Human HDAC7. (Synthesized non-phosphopeptide derived from Human HDAC7 around the phosphorylation site of serine 155 (T-V-S(p)-E-P)). Database link: <a href="#">Q8WUJ4</a>
<b>Positive control</b>	JK cell extract.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, 49% PBS  PBS without Mg <sup>2+</sup> and Ca <sup>2+</sup> .
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab196951 is affinity-purified from rabbit antiserum by affinity-chromatography using an epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab196951** in the following tested applications.

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

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 103 kDa.

## Target

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

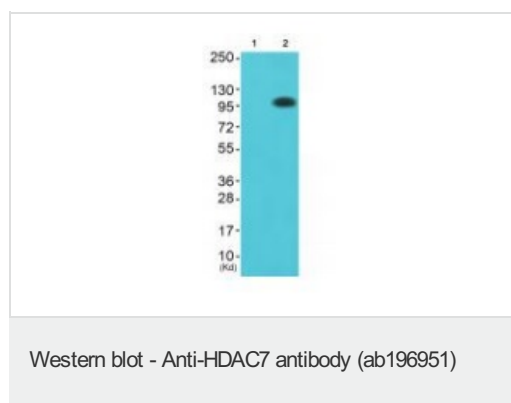
**Sequence similarities** Belongs to the histone deacetylase family. HD type 2 subfamily.

**Domain** The nuclear export sequence mediates the shuttling between the nucleus and the cytoplasm.

**Post-translational modifications** May be phosphorylated by CaMK1. Phosphorylated by the PKC kinases PKN1 and PKN2, impairing nuclear import.

**Cellular localization** 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.

## Images



**All lanes :** Anti-HDAC7 antibody (ab196951) at 1/500 dilution

**Lane 1 :** JK cell extract with synthesized peptide

**Lane 2 :** JK cell extract

**Predicted band size:** 103 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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