

## Product datasheet

# Anti-HDAC1 antibody ab55094

### 2 图像

#### 概述

产品名称	Anti-HDAC1抗体
描述	小鼠单克隆抗体to HDAC1
宿主	Mouse
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human
免疫原	Recombinant full length protein, corresponding to amino acids 1-483 of Human HDAC1

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None PBS, pH 7.2
纯度	Protein G purified
克隆	单克隆
同种型	IgG1
轻链类型	kappa

#### 应用

Our [Abpromise guarantee](#) covers the use of **ab55094** in the following tested applications.

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

应用	Ab评论	说明
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 55 kDa.
IHC-P		Use a concentration of 3 µg/ml.

## 靶标

### 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. Deacetylates SP proteins, SP1 and SP3, and regulates their function. Component of the BRG1-RB1-HDAC1 complex, which negatively regulates the CREST-mediated transcription in resting neurons. Upon calcium stimulation, HDAC1 is released from the complex and CREBBP is recruited, which facilitates transcriptional activation. Deacetylates TSHZ3 and regulates its transcriptional repressor activity. Deacetylates 'Lys-310' in RELA and thereby inhibits the transcriptional activity of NF-kappa-B.

### 组织特异性

Ubiquitous, with higher levels in heart, pancreas and testis, and lower levels in kidney and brain.

### 序列相似性

Belongs to the histone deacetylase family. HD type 1 subfamily.

### 翻译后修饰

Sumoylated on Lys-444 and Lys-476; which promotes enzymatic activity. Desumoylated by SENP1.

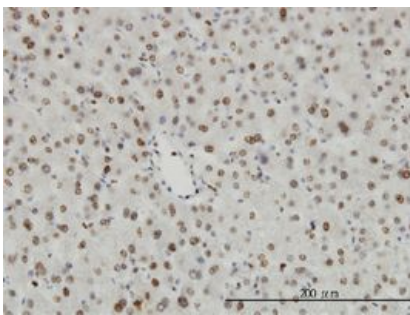
Phosphorylation on Ser-421 and Ser-423 promotes enzymatic activity and interactions with NuRD and SIN3 complexes.

Ubiquitinated by CHFR, leading to its degradation by the proteasome.

### 细胞定位

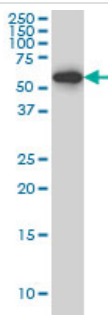
Nucleus.

## 图片



IHC-P - HDAC1 antibody (ab55094)

HDAC1 antibody (ab55094) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human liver.



Western blot - HDAC1 antibody (ab55094)

HDAC1 antibody (ab55094) at 1ug/lane + HeLa cell lysate at 25ug/lane.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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