

### Anti-HDAC7 antibody ab12174

★★★★☆ [4 Abreviews](#) [14 References](#) [2 图像](#)

#### 概述

|              |  |
|--------------|--|
| <b>产品名称</b>  | Anti-HDAC7抗体   |
| <b>描述</b>    | 兔多克隆抗体to HDAC7   |
| <b>宿主</b>    | Rabbit   |
| <b>经测试应用</b> | <b>适用于:</b> ICC/IF, WB, IP   |
| <b>种属反应性</b> | <b>与反应:</b> Mouse, Rat, Human  |
| <b>免疫原</b>   | Synthetic peptide:<br>KPRLRQIPSAEDLETDG<br>conjugated to KLH, corresponding to amino acids 436-452 of Human HDAC7 isoform a.<br><a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>  |
| <b>阳性对照</b>  | WB: HeLa and NIH3T3 cell lysates IP: HEK-293T cell lysates   |
| <b>常规说明</b>  | Storage in frost-free freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.<br><br>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br><br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

#### 性能

|             |   |
|-------------|---|
| <b>形式</b>   | Liquid  |
| <b>存放说明</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| <b>存储溶液</b> | pH: 7.40<br>Preservative: 0.097% Sodium azide<br>Constituents: 0.0268% PBS, 1% BSA                      |
| <b>纯度</b>   | Immunogen affinity purified   |
| <b>纯化说明</b> | The antibody is affinity-purified using the immunizing peptide immobilized on agarose.                  |
| <b>克隆</b>   | 多克隆   |

同种型

IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab12174于以下的经测试应用

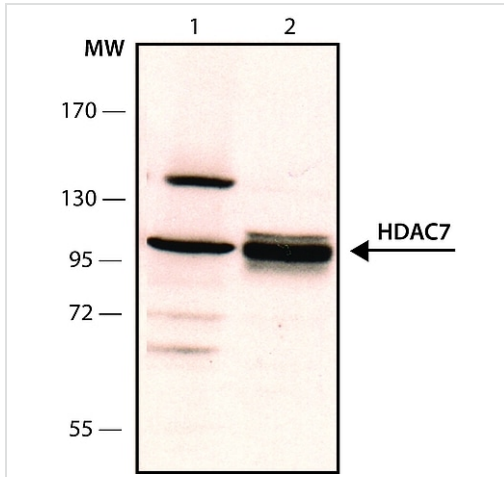
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用     | Ab评论      | 说明  |
|--------|-----------|---|
| ICC/IF |           | Use at an assay dependent concentration.<br>This dilution is recommended using whole extracts of mouse NIH-3T3 cells. Additional bands may be detected in various extract preparations. Detection of HDAC7 is specifically inhibited with the immunizing peptide. |
| WB     | ★★★★☆ (4) | Use at an assay dependent concentration. Predicted molecular weight: 103 kDa.   |
| IP     |           | Use at an assay dependent concentration.<br>1.0-1.5 µg of the antibody immunoprecipitates HDAC7 from a RIPA extract (180 µg) of 293T cells expressing recombinant human HDAC7.  |

## 靶标

|              |   |
|--------------|---|
| <b>功能</b>    | 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. |
| <b>序列相似性</b> | Belongs to the histone deacetylase family. HD type 2 subfamily.   |
| <b>结构域</b>   | The nuclear export sequence mediates the shuttling between the nucleus and the cytoplasm.   |
| <b>翻译后修饰</b> | May be phosphorylated by CaMK1. Phosphorylated by the PKC kinases PKN1 and PKN2, impairing nuclear import.  |
| <b>细胞定位</b>  | 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.  |

## 图片



Western blot - Anti-HDAC7 antibody (ab12174)

**All lanes :** Anti-HDAC7 antibody (ab12174) at 1/500 dilution

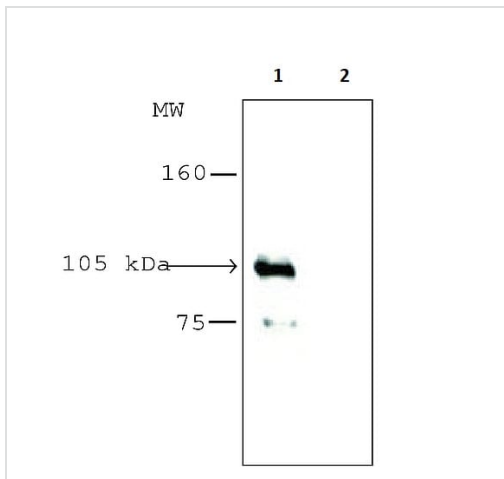
**Lane 1 :** HeLa nuclear lysate

**Lane 2 :** NIH3T3 cell lysate

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG-Peroxidase

**Predicted band size:** 103 kDa



Immunoprecipitation - Anti-HDAC7 antibody (ab12174)

HDAC7 was immunoprecipitated from whole cell extracts of human HEK-293T cells expressing HDAC7-FLAG using ab12174. The IP samples were separated on SDS-PAGE, blotted with ANTI-FLAG® and developed using Anti-Rabbit IgG, Peroxidase and chemiluminescent substrate.

Lane 1: 1.8 µg antibody immunoprecipitates HDAC7 from a RIPA extract of 180 µg of HEK-293T cells expressing HDAC7-FLAG

Lane 2: Negative control (extract without antibody).

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

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