



## Product datasheet

### Anti-HDAC3 antibody [3G6] - C-terminal ab170199

[1 Image](#)

#### Overview

<b>Product name</b>	Anti-HDAC3 antibody [3G6] - C-terminal
<b>Description</b>	Mouse monoclonal [3G6] to HDAC3 - C-terminal
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Synthetic peptide corresponding to Human HDAC3 aa 411-428 (C terminal). Sequence: NEFYDGDHDNDKESDVEI <div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	mouse NIH 3T3 cell lysate.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

#### 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>	Preservative: 0.1% Sodium azide Constituent: 99% PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3G6
<b>Isotype</b>	IgG2a

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab170199 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		1/100 - 1/800. Predicted molecular weight: 48 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. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1; increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor. Acts as a molecular chaperone for shuttling phosphorylated NR2C1 to PML bodies for sumoylation.

### Tissue specificity

Widely expressed.

### Sequence similarities

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

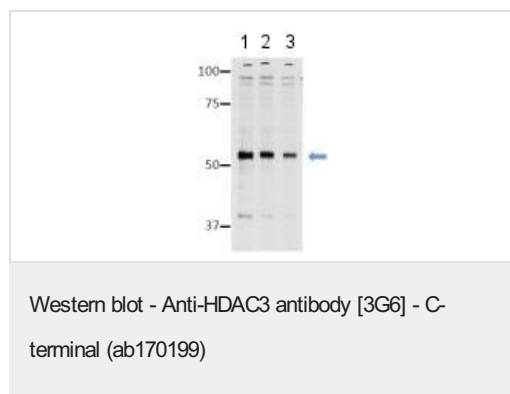
### Post-translational modifications

Sumoylated in vitro.

### Cellular localization

Nucleus.

## Images



**Lane 1 :** Anti-HDAC3 antibody [3G6] - C-terminal (ab170199) at 1/100 dilution

**Lane 2 :** Anti-HDAC3 antibody [3G6] - C-terminal (ab170199) at 1/200 dilution

**Lane 3 :** Anti-HDAC3 antibody [3G6] - C-terminal (ab170199) at 1/400 dilution

**All lanes :** NIH 3T3 cell lysate

**Predicted band size:** 48 kDa

**Exposure time:** 30 seconds

NIH 3T3 cell lysate was separated by 10% SDS PAGE and blotted onto nitrocellulose membrane. The membrane was blocked in 3% NFDM in PBS-T for 1h at RT and incubated at 4°C O/N with

ab170199.

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

#### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

#### **Terms and conditions**

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