


# Anti-HDAC6 antibody ab117516

★★★★★ [7 Abreviews](#) [3 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-HDAC6 antibody
<b>Description</b>	Rabbit polyclonal to HDAC6
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic peptide within Human HDAC6 aa 7-56 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: <a href="#">Q9UBN7</a>
<b>Positive control</b>	Human intestine (ganglion cells) and Human testis tissues; HepG2 cells.
<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 -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 0.88% Sodium chloride, 50% Glycerol (glycerin, glycerine)
	PBS without Mg2+, Ca2+
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab117516 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
ELISA		Use at an assay dependent concentration.
WB	★★★★★ (3)	1/500 - 1/1000. Predicted molecular weight: 131 kDa.
IHC-P		1/200.
ICC/IF	★★★★★ (4)	1/100 - 1/500.

## 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 (By similarity). Plays a central role in microtubule-dependent cell motility via deacetylation of tubulin.

### Sequence similarities

Belongs to the histone deacetylase family. HD type 2 subfamily.  
Contains 1 UBP-type zinc finger.

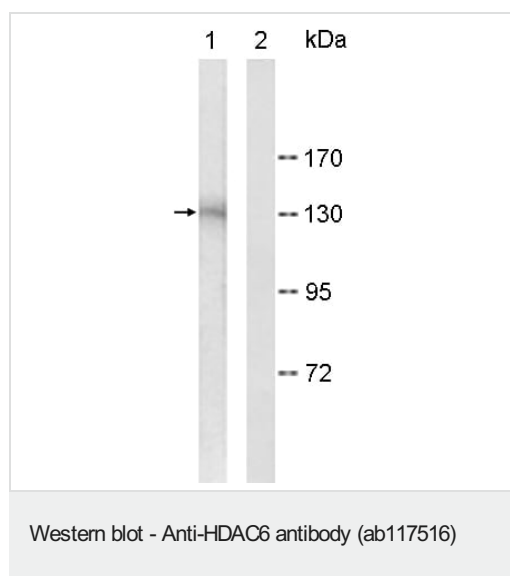
### Post-translational modifications

Ubiquitinated. Its polyubiquitination however does not lead to its degradation.  
Sumoylated in vitro.

### Cellular localization

Nucleus. Cytoplasm. It is mainly cytoplasmic, where it is associated with microtubules.

## Images

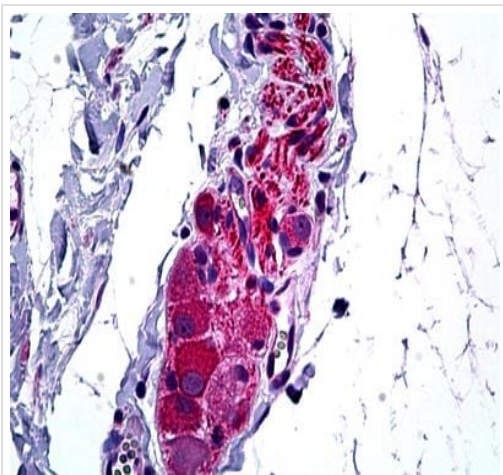


**All lanes :** Anti-HDAC6 antibody (ab117516) at 1/500 dilution

**Lane 1 :** HepG2 cell lysate

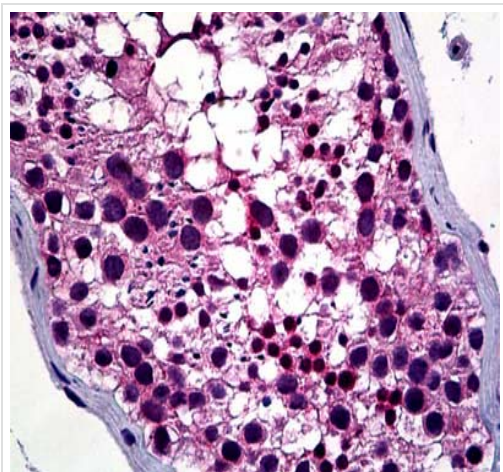
**Lane 2 :** HepG2 cell lysate with immunizing peptide

**Predicted band size:** 131 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HDAC6 antibody (ab117516)

ab117516, at 1:200 dilution, staining HDAC6 in Formalin-fixed, Paraffin-embedded Human intestine tissue (ganglion cells) by Immunohistochemistry.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HDAC6 antibody (ab117516)

ab117516, at 1:200 dilution, staining HDAC6 in Formalin-fixed, Paraffin-embedded Human testis tissue by Immunohistochemistry.



Immunocytochemistry/ Immunofluorescence - Anti-HDAC6 antibody (ab117516)

ab117516, at 1/100, staining HDAC6 in HepG2 cells by Immunofluorescence (Left image). The image on the right is treated with the synthesized peptide.

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