


Product datasheet

Anti-HDAC3 antibody ab264126

[2 Images](#)

Overview

Product name	Anti-HDAC3 antibody
Description	Rabbit polyclonal to HDAC3
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Orangutan 
Immunogen	Synthetic peptide within Human HDAC3 aa 375-428 (C terminal). The exact sequence is proprietary. Database link: O15379
Positive control	WB: HeLa, Ramos and NIH/3T3 whole cell lysate. IHC-P: Human ovarian carcinoma tissue.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: Tris buffered saline, 0.1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab264126 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		1/5000 - 1/15000. Predicted molecular weight: 49 kDa.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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.

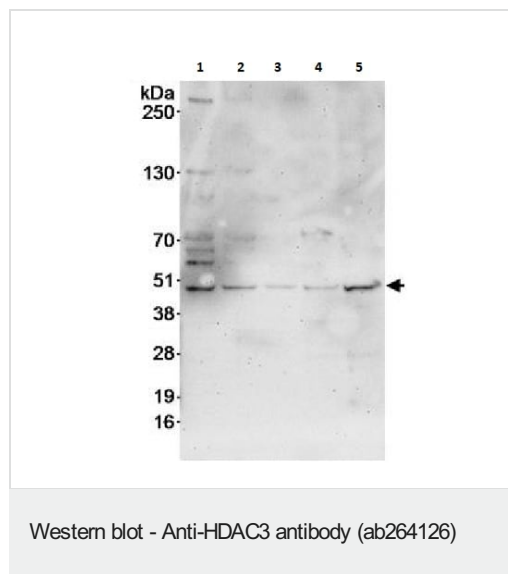
Post-translational modifications

Sumoylated in vitro.

Cellular localization

Nucleus.

Images



All lanes : Anti-HDAC3 antibody (ab264126) at 0.02 µg/ml

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

Lane 3 : HeLa whole cell lysate at 5 µg

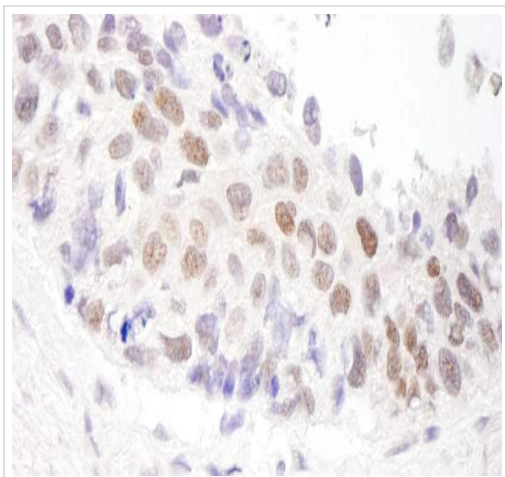
Lane 4 : Ramos (Human Burkitt's lymphoma cell line) whole cell lysate at 50 µg

Lane 5 : NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate at 50 µg

Predicted band size: 49 kDa

Exposure time: 3 minutes

4-20% SDS-PAGE.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HDAC3 antibody (ab264126)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human ovarian carcinoma tissue labeling HDAC3 with ab264126 at 1/200 dilution. Detection: DAB.

Epitope retrieval with Tris-EDTA pH 9.0 is recommended for FFPE tissue sections.

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

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