

# HDAC3-specific Polyclonal ANTIBODY

Catalog Number: 16164-1-AP

Featured Product

## Basic Information

Catalog Number:  
16164-1-AP

Size:  
21 µg/150 µl

Source:  
Rabbit

Isotype:  
IgG

Purification Method:  
Antigen affinity purification

Immunogen Catalog Number:

GenBank Accession Number:  
NM\_003883

GeneID (NCBI):  
8841

Full Name:  
histone deacetylase 3

Calculated MW:  
49 kDa

Observed MW:  
50 kDa

Recommended Dilutions:  
WB 1:500-1:1000

## Applications

Tested Applications:  
WB, ELISA

Species Specificity:  
human,mouse,rat

**Note: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : HL-60 cells; HEK-293 cells, human stomach tissue, HeLa cells

## Background Information

Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. Histone deacetylase (HDAC) and histone acetyltransferase (HAT) are enzymes that regulate transcription by selectively deacetylating or acetylating the  $\epsilon$ -amino groups of lysines located near the amino termini of core histone proteins. At least 4 classes of HDAC were identified. HDAC3 is a class I HDAC. HDAC3 has histone deacetylase activity and may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. HDAC3 can also down-regulate p53 function and thus modulate cell growth and apoptosis. The gene encoding HDAC3 is regarded as a potential tumor suppressor gene. This antibody is a rabbit polyclonal antibody raised against a peptide mapping within human HDAC3. This antibody is specific to HDAC3, and will not cross react with other HDACs.

## Notable Publications

Author	Pubmed ID	Journal	Application
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## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

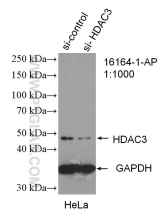
For technical support and original validation data for this product please contact:

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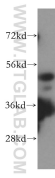
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## Selected Validation Data



WB result of HDAC3-specific antibody (16164-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HDAC3-specific transfected HeLa cells



HL-60 cells were subjected to SDS PAGE followed by western blot with 16164-1-AP(HDAC3-specific antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours