

Datasheet for ABIN968378
anti-HDAC3 antibody (AA 309-425)



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2 Images

Overview

Quantity:	50 µg
Target:	HDAC3
Binding Specificity:	AA 309-425
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HDAC3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human HDAC3 aa. 309-425
Clone:	40-HDAC3
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	HDAC3
Alternative Name:	HDAC3 (HDAC3 Products)
Background:	Regulation of gene expression occurs at multiple levels and is mediated by numerous factors. DNA-binding proteins such as histones function to spatially organize the DNA into chromatin. The spatial organization of chromatin is also important for gene expression, and modifications to DNA-binding proteins have profound effects on gene expression. Human Histone Deacetylase 3 (HDAC3) is a protein of approximately 50 kDa that removes acetyl groups from the epsilon-amino groups of lysines in histones, thus in competition with the acetylases. HDAC3 is the third member of this family of deacetylases, related to the yeast RPD3 gene, which affect transcription of certain human genes. HDAC3 importance is reflected in its distribution in virtually every cell type examined. In in vitro assays, HDAC3 exhibited activity towards histones H3 and H4 acetylated in vivo. Furthermore, inhibitors of deacetylation, such as sodium butyrate, inhibited HDAC3 activity. Further studies will determine the specific role of HDAC3 in regulating gene expression. Synonyms: Histone Deacetylase-3
Molecular Weight:	50 kDa
Pathways:	Neurotrophin Signaling Pathway , Regulation of Lipid Metabolism by PPARalpha , Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development

Application Details

Comment:	Related Products: ABIN968536, ABIN967389
Restrictions:	For Research Use only

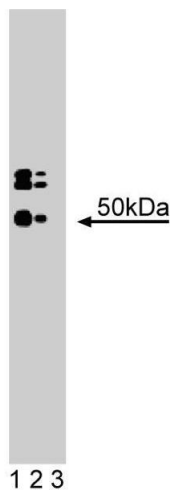
Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

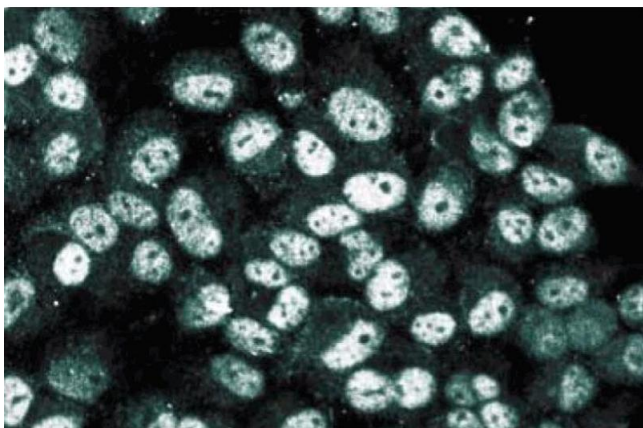
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Images



Western Blotting

Image 1. Western blot analysis of HDAC3 on a human endothelial cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-HDAC3 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of human endothelial cells.