

For Research Use Only

# HDAC1 Monoclonal antibody

Catalog Number: 66085-1-Ig **16 Publications**



## Basic Information

<b>Catalog Number:</b> 66085-1-Ig	<b>GenBank Accession Number:</b> BC000301	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1100 ug/ml by Nanodrop and 780 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3065	<b>CloneNo.:</b> 4C4G7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q13547	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:2000-1:10000 IF/ICC 1:6000-1:24000
<b>Isotype:</b> IgG1	<b>Full Name:</b> histone deacetylase 1	
<b>Immunogen Catalog Number:</b> AG19128	<b>Calculated MW:</b> 55 kDa	
	<b>Observed MW:</b> 65 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>  <b>WB :</b> LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells  <b>IHC :</b> human lymphoma tissue, human lung cancer tissue, human prostate cancer tissue  <b>IF/ICC :</b> A431 cells, HeLa cells
<b>Cited Applications:</b> WB, IHC, IF, ChIP	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Histone deacetylases(HDAC) are a class of enzymes that remove the acetyl groups from the lysine residues leading to the formation of a condensed and transcriptionally silenced chromatin. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex, which is responsible for gene expression silencing. It also plays an important role in the control of cell proliferation and differentiation by interacting with RB, p53 and other transcription factors. At least 4 classes of HDAC were identified. As a class I HDAC, HDAC 1 was primarily found in the nucleus. This antibody is raised against residues near the C terminus of human HDAC1. The calculated molecular weight of HDAC1 is 55 kDa, but modified HDAC1 is about 60-65 kDa .

## Notable Publications

Author	Pubmed ID	Journal	Application
Lifang Li	28947780	Nat Commun	WB
Pei Fan	35711556	Front Nutr	WB
Xiaohao Zhang	33757583	Biol Res	WB

## Storage

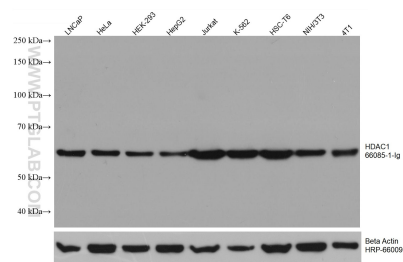
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

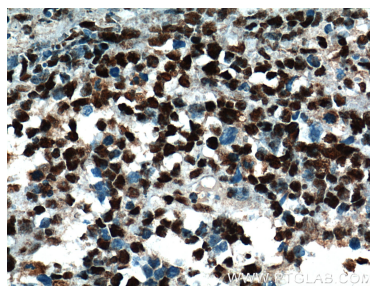
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
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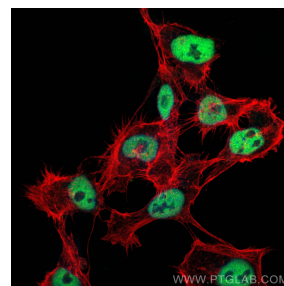
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66085-1-Ig (HDAC1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 66085-1-Ig (HDAC1 Antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using HDAC1 antibody (66085-1-Ig, Clone: 4C4G7) at dilution of 1:12000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).