

For Research Use Only

HDAC1 Monoclonal antibody

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



Basic Information

Catalog Number: 66085-1-Ig	GenBank Accession Number: BC000301	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop and 458 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3065	CloneNo.: 4C4G7
Source: Mouse	UNIPROT ID: Q13547	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:10000 IF/ICC 1:6000-1:24000
Isotype: IgG1	Full Name: histone deacetylase 1	
Immunogen Catalog Number: AG19128	Calculated MW: 55 kDa	
	Observed MW: 65 kDa	

Applications

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

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

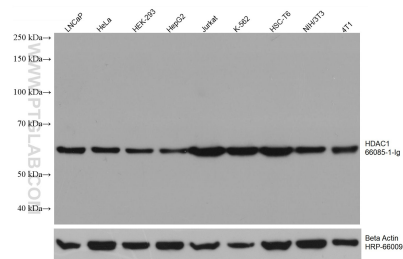
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

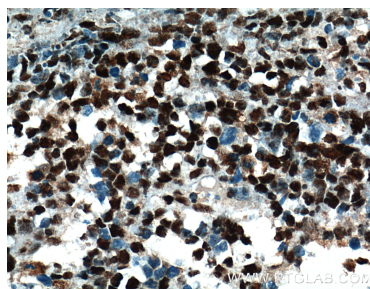
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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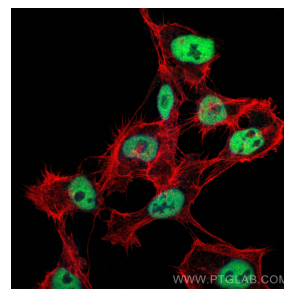
Selected Validation Data



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).