

For Research Use Only

HDAC1 Monoclonal antibody

Catalog Number: 66085-1-Ig **5 Publications**



Basic Information

Catalog Number: 66085-1-Ig	GenBank Accession Number: BC000301	Purification Method: Protein G purification
Size: 150UL, Concentration: 1000 µg/ml by 3065 Bradford method using BSA as the standard;	GeneID (NCBI): Full Name: histone deacetylase 1	CloneNo.: 4C4G7
Source: Mouse	Calculated MW: 55 kDa	Recommended Dilutions: WB 1:20000-1:100000 IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG1	Observed MW: 65 kDa	
Immunogen Catalog Number: AG19128		

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB: HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells
Species Specificity: human, mouse, rat	IHC: human lymphoma tissue, human lung cancer tissue
Cited Species: human, mouse	IF: 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
Xiaohao Zhang	33757583	Biol Res	WB
Moumita Datta	29548672	Immunity	WB

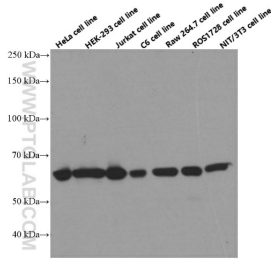
Storage

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

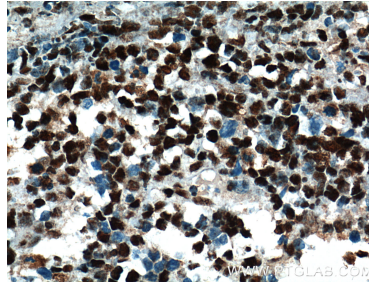
For technical support and original validation data for this product please contact:
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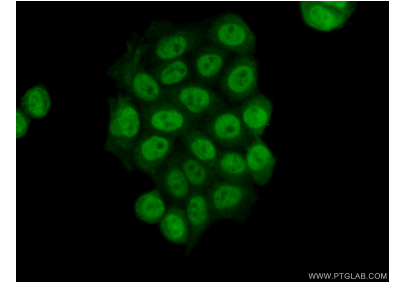
Selected Validation Data



Western blot analysis of HDAC1 in various cell lines using Proteintech antibody 66085-1-Ig at dilution of 1:50000 incubated at room temperature for 1.5 hours.



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 (10% Formaldehyde) fixed HeLa cells using 66085-1-Ig(HDAC1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).