For Research Use Only

HDAC1 Monoclonal antibody

Catalog Number: 66085-1-lg 12 Publications



Basic Information

Catalog Number: GenBank Accession Number: 66085-1-lg BC000301

GeneID (NCBI): CloneNo.: Size:

150ul, Concentration: 1000 µg/ml by 3065 4C4G7Nanodrop and 458 µg/ml by Bradford Full Name: method using BSA as the standard;

histone deacetylase 1 Calculated MW: Mouse 55 kDa Isotype: Observed MW: lgG1 65 kDa

Immunogen Catalog Number:

AG19128

Purification Method: Protein A purification

Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:10000

IF 1:6000-1:24000

Applications

Tested Applications: IF, IHC, WB, ELISA

Cited Applications: ChIP, IHC, WB Species Specificity:

human, mouse, rat **Cited Species:**

Positive Controls:

WB: LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

IHC: human lymphoma tissue, human lung cancer

tissue, human prostate cancer tissue

IF: 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

human, mouse

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 $terminus\ of\ human\ HDAC1.\ The\ calculated\ molecular\ weight\ of\ HDAC1\ is\ 55\ kDa,\ but\ modified\ HDAC1\ is\ about\ 60-terminus\ of\ human\ HDAC1\ is\ about\ 60-terminus\ about\ 6$ 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

Store at -20°C. Stable for one year after shipment.

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

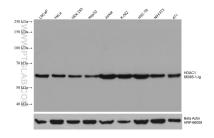
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

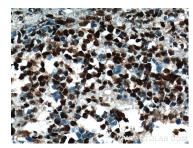
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

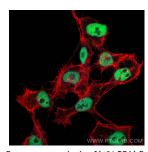
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66085-1-1g (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 paraffinembedded 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-lg, Clone: 4C4G7) at dilution of 1:12000 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).