

For Research Use Only

HDAC4 Monoclonal antibody

Catalog Number: 66838-1-Ig

Featured Product

7 Publications



Basic Information

Catalog Number:

66838-1-Ig

Size:

150ul, Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG11345

GenBank Accession Number:

BC039904

GeneID (NCBI):

9759

UNIPROT ID:

P56524

Full Name:

histone deacetylase 4

Calculated MW:

972 aa, 106 kDa

Observed MW:

140 kDa

Purification Method:

Protein A purification

CloneNo.:

1D2G12

Recommended Dilutions:

WB 1:1000-1:3000

IHC 1:300-1:1200

IF-P 1:200-1:800

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IF, IP, ChIP

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells

IHC: human breast cancer tissue,

IF-P: mouse liver tissue,

IF/ICC: C2C12 cells,

Background Information

HDAC4, also named as HDACA, belongs to the histone deacetylase family. HDAC4 is responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. HDAC4 is involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D.

Notable Publications

Author	Pubmed ID	Journal	Application
Yongyun Li	34536440	J Mol Cell Cardiol	IF
Wei Zhan	32404892	Oncogenesis	WB
Wei Jie	35132916	Virulence	IF

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

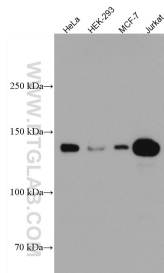
For technical support and original validation data for this product please contact:

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

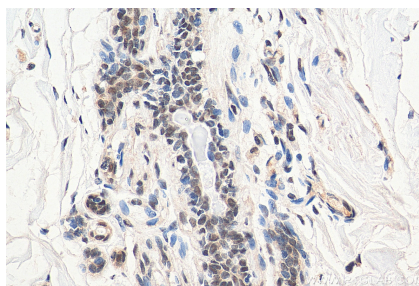
E: proteintech@ptglab.com
W: ptglab.com

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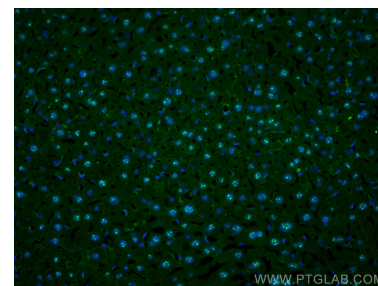
Selected Validation Data



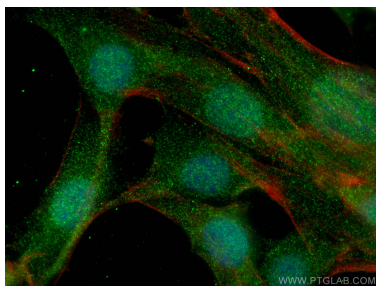
Various lysates were subjected to SDS PAGE followed by western blot with 66838-1-Ig (HDAC4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66838-1-Ig (HDAC4 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using HDAC4 antibody (66838-1-Ig, Clone: 1D2G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using HDAC4 antibody (66838-1-Ig, Clone: 1D2G12) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).