

For Research Use Only

HDAC4-specific Polyclonal antibody

Catalog Number: 16165-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

16165-1-AP

Size:

150ul, Concentration: 700 µg/ml by Nanodrop and 227 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC039904

GeneID (NCBI):

9759

UNIPROT ID:

P56524

Full Name:

histone deacetylase 4

Calculated MW:

119 kDa

Observed MW:

119-140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB: HeLa cells, HepG2 cells

IP: HeLa cells,

IHC: human ovary tumor tissue, human lung cancer tissue

IF: mouse liver tissue,

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

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. This antibody is a rabbit polyclonal antibody raised against a peptide mapping within human HDAC4.

Notable Publications

Author	Pubmed ID	Journal	Application
Bin Sun	36439629	J Orthop Translat	WB
Yoshihiko Kobayashi	32661339	Nat Cell Biol	IF
Yuan Ji-hang JH	21837748	Hepatology	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

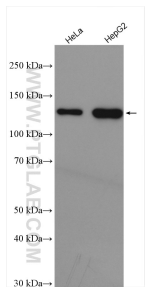
For technical support and original validation data for this product please contact:

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

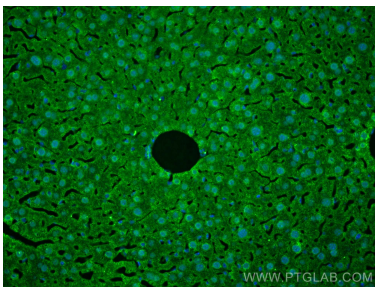
E: proteintech@ptglab.com
W: ptglab.com

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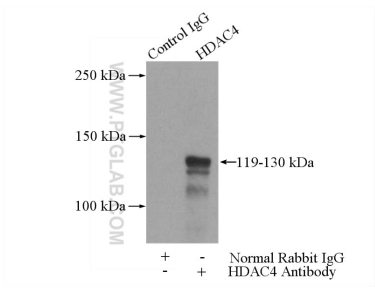
Selected Validation Data



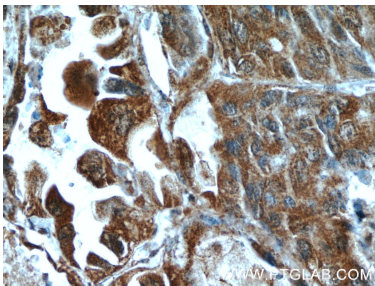
Various lysates were subjected to SDS PAGE followed by western blot with 16165-1-AP (HDAC4-specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



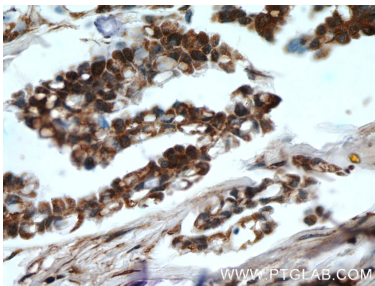
Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using HDAC4-specific antibody (16165-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-HDAC4-specific (IP:16165-1-AP, 4ug; Detection:16165-1-AP 1:500) with HeLa cells lysate 2440ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16165-1-AP (HDAC4-specific Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 16165-1-AP (HDAC4-specific Antibody) at dilution of 1:50 (under 40x lens).