

For Research Use Only

HDAC6 Polyclonal antibody

Catalog Number: 12834-1-AP

Featured Product

67 Publications



Basic Information

Catalog Number:

12834-1-AP

Size:

150ul, Concentration: 850 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3572

GenBank Accession Number:

BC013737

GeneID (NCBI):

10013

UNIPROT ID:

Q9UBN7

Full Name:

histone deacetylase 6

Calculated MW:

1063 aa, 114 kDa, 131 kDa

Observed MW:

160 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

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

IHC: 1:20-1:200

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human

Cited Species:

human, pig, canine

Positive Controls:

WB: K-562 cells, HeLa cells, human liver tissue, HepG2 cells

IP: K-562 cells,

IHC: human testis tissue, human breast cancer tissue, human lung cancer tissue, mouse brain tissue

IF/ICC: MG132 treated HepG2 cells, HepG2 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. At least 4 classes of HDAC were identified. HDAC6 is a member of the class II mammalian histone deacetylases. It possesses two separate putative catalytic domains. Both catalytic domains are fully functional HDACs and contribute independently to the overall activity of HDAC6 protein. A very potent NES is present at the amino-terminus of HDAC6, which was found to play an important role in regulating the shuttling of HDAC6 protein between cytoplasm and nucleus. The shuttling process may be a critical regulatory mechanism of HDAC6 function. The expression of HDAC6 is tightly linked to the state of cell differentiation. HDAC6 may participate in coordinating expression of a group of genes involved in the remodelling of chromatin during cell differentiation. HDAC6 has some splicing variants such as P114 (~130kd), P131 (~160kd). This antibody is a rabbit polyclonal antibody raised against residues near the C terminal of human HDAC6. The calculated molecular weight of HDAC6 is 130 kDa, but the modified HDAC6 is about 150-160 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Shixin Gong	36117192	Cell Regen	WB
Yijing Zheng	32926854	Am J Pathol	WB
Shenli Yuan	36068616	Genome Biol	WB, IP

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

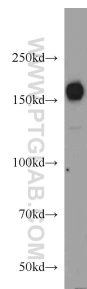
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

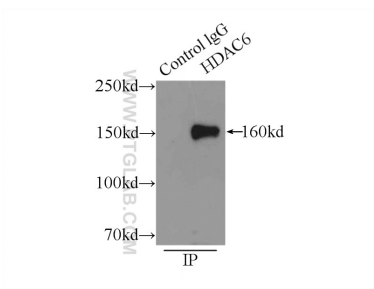
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

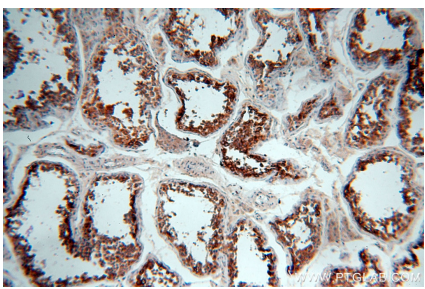
Selected Validation Data



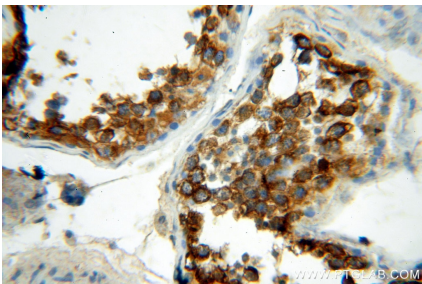
K-562 cells were subjected to SDS PAGE followed by western blot with 12834-1-AP (HDAC6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



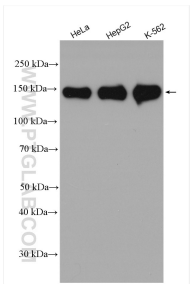
IP result of anti-HDAC6 (IP:12834-1-AP, 5ug; Detection:12834-1-AP 1:1000) with K-562 cells lysate 11000ug.



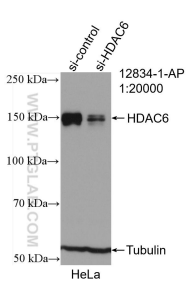
Immunohistochemical analysis of paraffin-embedded human testis using 12834-1-AP (HDAC6 antibody) at dilution of 1:50 (under 10x lens).



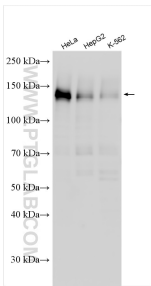
Immunohistochemical analysis of paraffin-embedded human testis using 12834-1-AP (HDAC6 antibody) at dilution of 1:50 (under 40x lens).



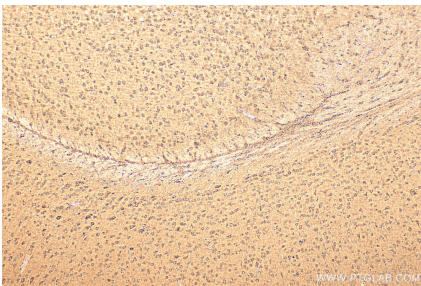
Various lysates were subjected to SDS PAGE followed by western blot with 12834-1-AP (HDAC6 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



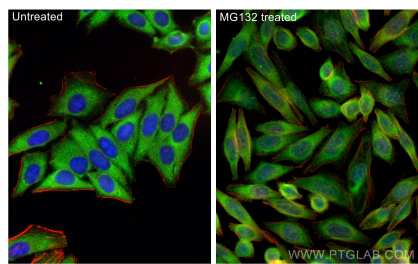
WB result of HDAC6 antibody (12834-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HDAC6 transfected HeLa cells.



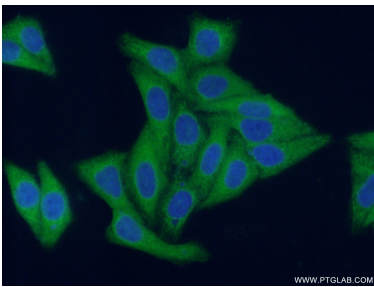
Various lysates were subjected to SDS PAGE followed by western blot with 12834-1-AP (HDAC6 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12834-1-AP (HDAC6 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MG132 treated HepG2 cells using HDAC6 antibody (12834-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 12834-1-AP (HDAC6 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).