

For Research Use Only

HDAC2 Polyclonal antibody

Catalog Number: 12922-3-AP

Featured Product

35 Publications



Basic Information

Catalog Number:
12922-3-AP

Size:
150ul, Concentration: 600 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3607

GenBank Accession Number:
BC031055

GeneID (NCBI):
3066

Full Name:
histone deacetylase 2

Calculated MW:
458 aa, 52 kDa; 488 aa, 55 kDa

Observed MW:
55-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:10-1:100

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications:

ChIP, IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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: HEK-293 cells, HeLa cells, HepG2 cells, human kidney tissue, Jurkat cells, MCF-7 cells, rat liver tissue

IP: mouse testis tissue,

IHC: human prostate cancer tissue, human breast cancer tissue, human testis tissue

IF: HepG2 cells,

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. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). At least 4 classes of HDAC were identified. As a class I HDAC, HDAC2 was primarily found in the nucleus. HDAC2 forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human HDAC2.

Notable Publications

Author	Pubmed ID	Journal	Application
Hong Mai	34586697	J Cell Mol Med	IHC
Daniel B McClatchy	32994440	Sci Rep	WB
Z Li	26411366	Oncogene	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

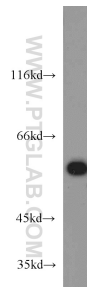
For technical support and original validation data for this product please contact:

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

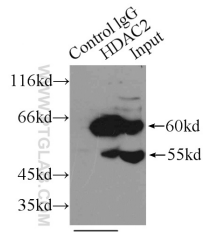
E: proteintech@ptglab.com
W: ptglab.com

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

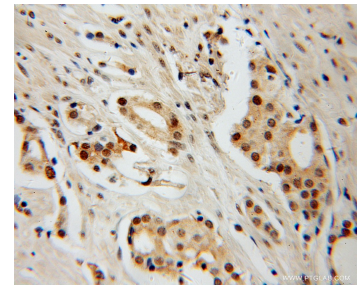
Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12922-3-AP (HDAC2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



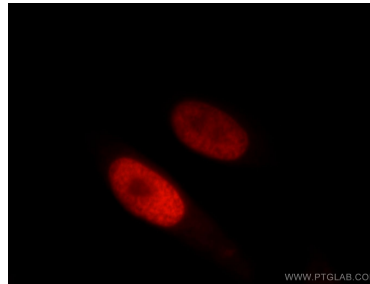
IP Result of anti-HDAC2 (IP:12922-3-AP, 3ug; Detection:12922-3-AP 1:1000) with mouse testis tissue lysate 10000ug.



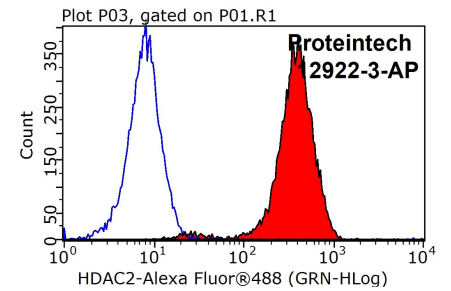
Immunohistochemical analysis of paraffin-embedded human prostate cancer using 12922-3-AP (HDAC2 antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HDAC2 antibody (12922-3-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of HepG2 cells, using HDAC2 antibody 12922-3-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



1X10⁶ HEK-293T cells were stained with .2ug HDAC2 antibody (12922-3-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.