For Research Use Only

HDAC2 Polyclonal antibody

Catalog Number: 12922-3-AP

Featured Product

87 Publications

GenBank Accession Number:



Basic Information

Catalog Number:

12922-3-AP BC031055
Size: GeneID (NCBI):

150ul, Concentration: 600 ug/ml by 3066

Nanodrop; UNIPROT ID:
Source: Q92769
Rabbit Full Name:

Isotype: histone deacetylase 2

IgG Calculated MW:

Immunogen Catalog Number: 458 aa, 52 kDa; 488 aa,55 kDa

AG3607 Observed MW: 55-60 kDa

Purification Method: Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:2000-1:8000 IF/ICC 1:1000-1:4000

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, chIP

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, human kidney tissue, MCF-7 cells, rat liver tissue, HeLa cells, HepG2 cells, LO2 cells, C6

cells, NIH/3T3 cells, rat kidney tissue

IP: HEK-293 cells,
IHC: mouse brain tissue,

IF/ICC: HepG2 cells, HeLa 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

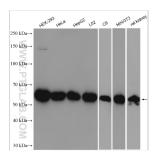
*** 20ul sizes contain 0.1% BSA

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

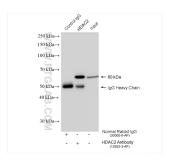
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

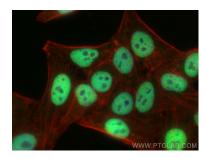
Selected Validation Data



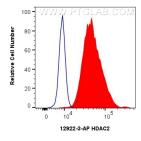
Various lysates were subjected to SDS PAGE followed by western blot with 12922-3-AP (HDAC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



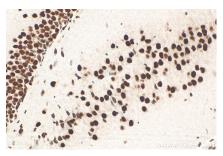
IP result of anti-HDAC2 (IP:12922-3-AP, 4ug; Detection:12922-3-AP 1:20000) with HEK-293 cells lysate 960 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HDAC2 antibody (12922-3-AP) at dilution of 1:2000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



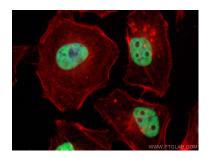
1x10^6 HeLa cells were intracellularly stained with 0.25 ug HDAC2 Polyclonal antibody (12922-3-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (5A00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12922-3-AP (HDAC2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12922-3-AP (HDAC2 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HDAC2 antibody (12922-3-AP) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).