

For Research Use Only

HDAC2-specific Polyclonal antibody

Catalog Number: 16152-1-AP

4 Publications



Basic Information

Catalog Number:

16152-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001527

GeneID (NCBI):

3066

UNIPROT ID:

Q92769

Full Name:

histone deacetylase 2

Calculated MW:

458 aa, 52 kDa; 488 aa, 55 kDa

Observed MW:

55 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 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human

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: HepG2 cells, A431 cells, HeLa cells, human liver tissue

IP: A431 cells,

IHC: human testis tissue, human brain tissue, human heart tissue, human kidney tissue, human liver tissue, human ovary tissue, human skin tissue, human spleen tissue

IF/ICC: 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 a peptide mapping within human HDAC2 and is specific to HDAC2. It will not cross react with other HDACs.

Notable Publications

Author	Pubmed ID	Journal	Application
Ruiqing Zhou	32234630	Chemosphere	WB
Tianyou Yan	28235656	Leuk Res	IF
Nan Liu	37311463	Mol Cell	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**

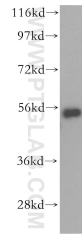
For technical support and original validation data for this product please contact:

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

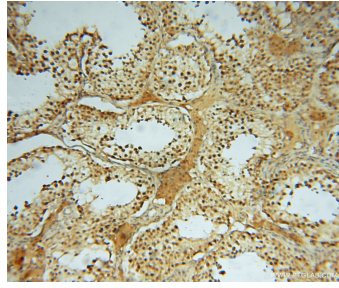
E: proteintech@ptglab.com
W: ptglab.com

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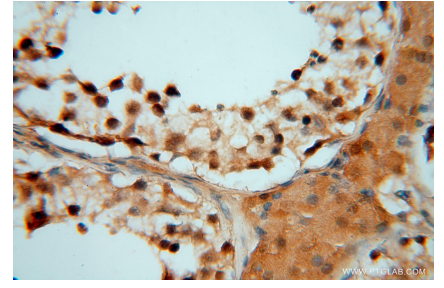
Selected Validation Data



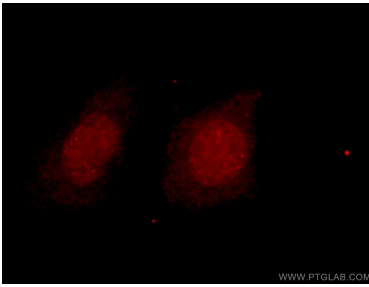
HepG2 cells were subjected to SDS PAGE followed by western blot with 16152-1-AP (HDAC2-specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



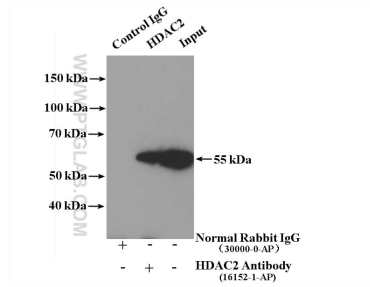
Immunohistochemical analysis of paraffin-embedded human testis using 16152-1-AP (HDAC2-specific antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 16152-1-AP (HDAC2-specific antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 16152-1-AP (HDAC2-specific antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP result of anti-HDAC2-specific (IP:16152-1-AP, 4ug; Detection:16152-1-AP 1:500) with A431 cells lysate 2400ug.