

HDAC2 Recombinant monoclonal antibody

Catalog Number: 81497-4-RR

Basic Information

Catalog Number:

81497-4-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3607

GenBank Accession Number:

BC031055

GeneID (NCBI):

3066

UNIPROT ID:

Q92769

Full Name:

histone deacetylase 2

Calculated MW:

458 aa, 52 kDa; 488 aa, 55 kDa

Observed MW:

55-60 kDa

Purification Method:

Protein A purification

CloneNo.:

252017B9

Recommended Dilutions:

WB: 1:2000-1:10000

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

IHC: 1:250-1:1000

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Species Specificity:

human, mouse

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: HeLa cells, HepG2 cells, HEK-293 cells, K-562 cells, Jurkat cells, NIH/3T3 cells

IP: HEK-293 cells,

IHC: mouse brain tissue,

IF/ICC: HeLa cells, 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 monoclonal antibody raised against residues near the C terminus of human HDAC2.

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

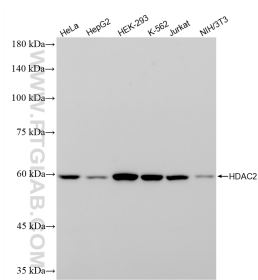
For technical support and original validation data for this product please contact:

T: 4006900926

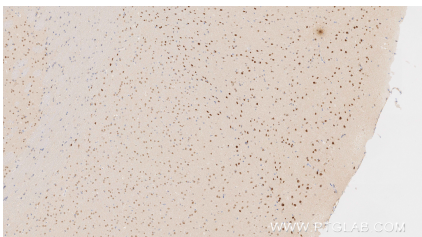
E: Proteintech-CN@ptglab.comW: ptgcn.com

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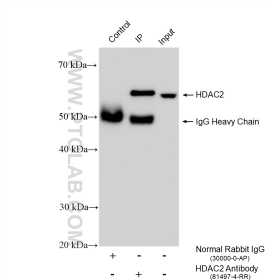
Selected Validation Data



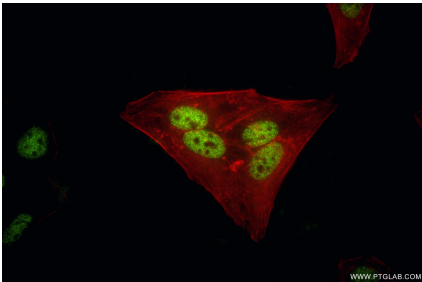
Various lysates were subjected to SDS PAGE followed by western blot with 81497-4-RR (HDAC2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



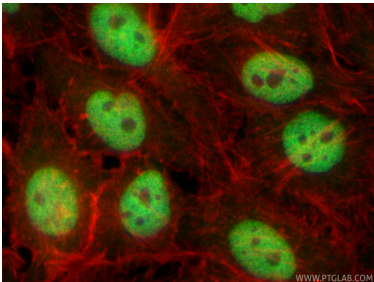
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 81497-4-RR (HDAC2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-HDAC2 (IP:81497-4-RR, 4ug; Detection:81497-4-RR 1:800) with HEK-293 cells lysate 1080 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HDAC2 antibody (81497-4-RR, Clone: 252017B9) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HDAC2 antibody (81497-4-RR, Clone: 252017B9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HDAC2 antibody (81497-4-RR, Clone: 252017B9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).