

For Research Use Only

HDAC2 Recombinant monoclonal antibody

Catalog Number: 81497-4-RR



Basic Information

Catalog Number: 81497-4-RR	GenBank Accession Number: BC031055	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3066	CloneNo.: 252017B9
Source: Rabbit	UNIPROT ID: Q92769	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
Isotype: IgG	Full Name: histone deacetylase 2	
Immunogen Catalog Number: AG3607	Calculated MW: 458 aa, 52 kDa; 488 aa, 55 kDa	
	Observed MW: 55-60 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HeLa cells, HepG2 cells, HEK-293 cells, K-562 cells, Jurkat cells, NIH/3T3 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

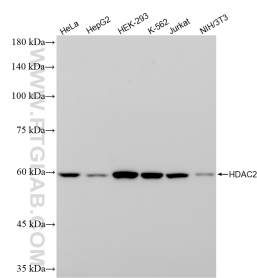
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

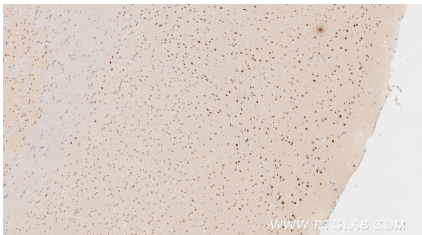
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

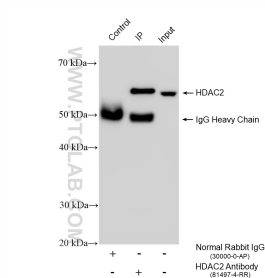
Selected Validation Data



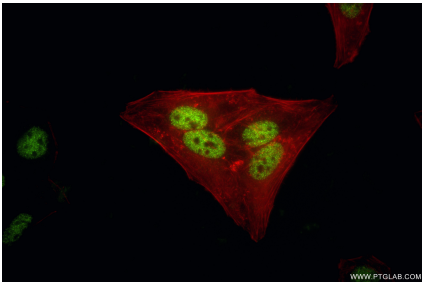
Various lysates were subjected to SDS PAGE followed by western blot with 81497-4-RR (HDAC2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



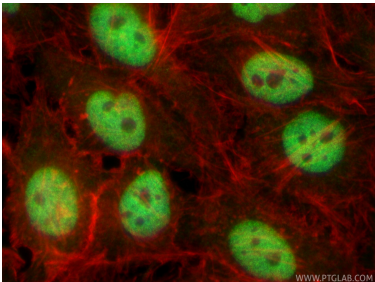
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 81497-4-RR (HDAC2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



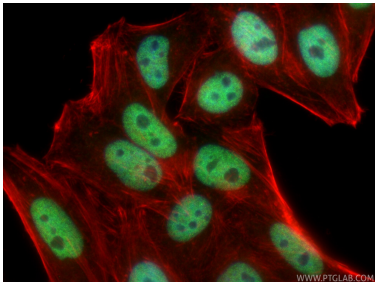
IP result of anti-HDAC2 (IP:81497-4-RR, 4ug; Detection:81497-4-RR 1:800) with HEK-293 cells lysate 1080 ug.



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).