

HDAC2 Polyclonal Antibody

Catalog number: 12922-3-AP

Size: 36 µg/150 µl

Source: Rabbit

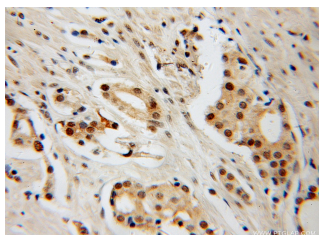
Isotype: IgG

Synonyms:

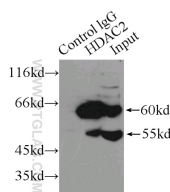
HDAC2; HD2, HDAC2, histone deacetylase 2, RPD3, YAF1



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



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



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

Background

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.

Applications

Tested applications:	ELISA, WB, IHC, IF, IP, FC
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat
Calculated HDAC2 MW:	582aa, 65 kDa; 488aa, 55 kDa
Observed HDAC2 MW:	55-60kd
Positive WB detected in	HEK-293 cells, HeLa cells, HepG2 cells, human kidney tissue, Jurkat cells, MCF7 cells, rat liver tissue
Positive IP detected in	Mouse testis tissue
Positive IHC detected in	Human prostate cancer tissue, human breast cancer tissue, human testis tissue
Positive IF detected in	HepG2 cells, HeLa cells
Positive FC detected in	HEK-293T cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:10-1:100 FC: N/A

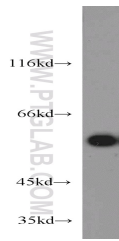
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

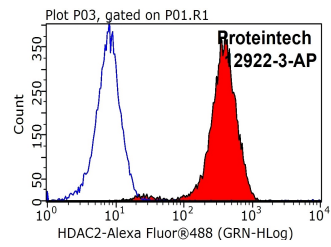
Immunogen:	Ag3607
GenBank accession number:	BC031055
Gene ID (NCBI):	3066
Full name:	Histone deacetylase 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12922-3-AP(HDAC2 antibody) at dilution of 1:1000



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.