

HDAC1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5089

Product Information

Application	IF, WB
Primary Accession	Q13547
Other Accession	P70288 , Q92769 , P56519 , Q4QQW4 , O09106 , P56517 , Q32PJ8 , O42227 , Q91695 , NP_004955.2
Reactivity	Mouse, Rat, Human
Predicted	Bovine, Chicken, Xenopus
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Antigen Region	70-99
Other Names	HDAC1; RPD3L1; Histone deacetylase 1
Dilution	IF~~1:10~50 WB~~1:1000
Target/Specificity	This HDAC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 70-99 amino acids from the N-terminal region of human HDAC1.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HDAC1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

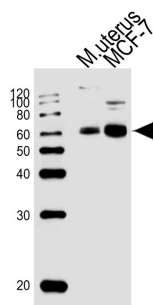
Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone

deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis.

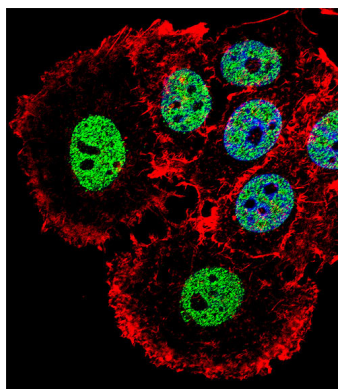
References

Yang, Z., et al. Clin. Chem. Lab. Med. 48(12):1785-1791(2010) Grausenburger, R., et al. J. Immunol. 185(6):3489-3497(2010) Miller, K.M., et al. Nat. Struct. Mol. Biol. 17(9):1144-1151(2010) Brandt, S., et al. Int. J. Biochem. Cell Biol. 42(9):1472-1481(2010) Leone, V., et al. Oncogene 29(30):4341-4351(2010)

Images



All lanes : Anti-HDAC1 Antibody (N-term) at 1:1000 dilution Lane 1: mouse uterus lysates Lane 2: MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Fluorescent confocal image of MCF-7 cell stained with HDAC1 Antibody (N-term)(Cat#AW5089).MCF-7 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HDAC1 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). HDAC1 immunoreactivity is localized to Nucleus significantly.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.