

Datasheet for ABIN129652
anti-HDAC1 antibody (AA 466-482)

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Overview

Quantity:	100 µg
Target:	HDAC1
Binding Specificity:	AA 466-482
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Anti-HDAC-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 466-482 of Human HDAC-1.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	HDAC1
Alternative Name:	HDAC-1 (HDAC1 Products)
Background:	HDAC-1 antibody recognizes HDAC1 (also known as HD1, histone deacetylase 1, RPD3, RPD3L1) which belongs to the histone deacetylase/acuc/apha family and is a component of

Target Details

the histone deacetylase complex. Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. 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.

Synonyms: GON 10 antibody, HD 1 antibody, hdac1: histone deacetylase 1 antibody, Histone deacetylase 1 (HD1) antibody, Histone deacetylase 1 antibody, RPD3 (reduced potassium dependency yeast homolog) like 1 antibody

Gene ID: 3065, 13128860

UniProt: [Q13547](#)

Pathways: [Neurotrophin Signaling Pathway](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Mitotic G1-G1/S Phases](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Negative Regulation of intrinsic apoptotic Signaling](#), [Embryonic Body Morphogenesis](#)

Application Details

Application Notes: Anti-HDAC-1 Antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. Specific nuclear staining is observed by IHC. Expect bands at 65 kDa in size corresponding to HDAC-1 by western blotting in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.33 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Publications

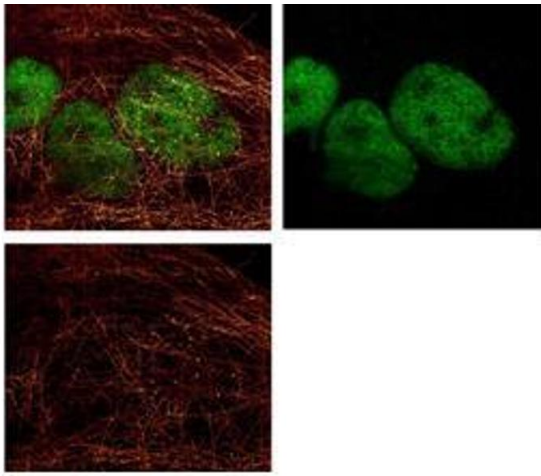
Product cited in: Maloverjan, Piirsoo, Kasak, Peil, Østerlund, Kogerman: "Dual function of UNC-51-like kinase 3 (Ulk3) in the Sonic hedgehog signaling pathway." in: **The Journal of biological chemistry**, Vol. 285, Issue 39, pp. 30079-90, (2010) ([PubMed](#)).

Images



Western Blotting

Image 1. Western Blot of Rabbit Anti-HDAC-1 Antibody. Lane 1: 293 whole cell lysate. Lane 2: none. Load: 35 µg per lane. Primary antibody: HDAC-1 antibody at 1:3,500 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~65 kDa corresponding to human HDAC1. Other band(s): none. .



Immunofluorescence

Image 2. Immunofluorescence Microscopy of Rabbit anti-HDAC1 Antibody. Tissue: A431 cells. Fixation: methanol. Antigen retrieval: blocked with normal goat serum. Primary antibody: HDAC1 antibody at 04 µg/mL for 1 h at RT. Secondary antibody: rabbit secondary antibody at 0.2 µg/mL for 45 min at RT. Localization: HDAC1 is nuclear. Staining: HDAC1 as green fluorescent signal. A-tubulin monoclonal antibody detected with ATTO 425 (colored RED). 2-color STED image, Leica Microsystems.

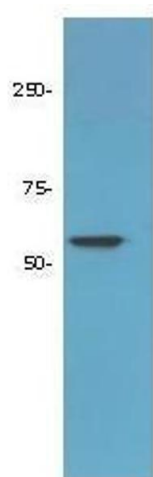
**Western Blotting**

Image 3. Western Blot of Rabbit Anti-HDAC-1 Antibody. Lane 1: LNCaP prostate cancer cells. Lane 2: none. Load: 50 µg per lane. Primary antibody: HDAC-1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 55kDa for HDAC-1. Other band(s): none.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN129652.