

Datasheet for ABIN2779587
anti-HDAC1 antibody (Middle Region)[Go to Product page](#)

6 Images

Overview

Quantity:	100 µL
Target:	HDAC1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio), Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human HDAC1
Sequence:	EKIQQLFEN LRMLPHAPGV QMQAIPEDAI PEESGDEDED DPDKRISICS
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 93%, Rabbit: 93%, Rat: 93%, Yeast: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against HDAC1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	HDAC1
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Target Details

Alternative Name: HDAC1 ([HDAC1 Products](#))

Background: Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. HDAC1 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: DKFZp686H12203, GON-10, HD1, RPD3, RPD3L1

Protein Interaction Partner: BCL6, CUL4B, YY1, SIN3A, RCOR1, KDM1A, KAT5, NCOR2, SUMO1, DDIT3, DDB1, BCOR, SF3A1, TP53, SP1, SUMO2, NFKB1, NFE2L2, MDM2, SMAD3, SMAD1, JUN, CHFR, HIF1A, HDAC2, EP300, SAP130, UBC, RELA, RB1, RARA, PRDM6, HAUS2, FEZF2, BANP, WHSC1, ESR1, DNMT3B, DNMT1,

Protein Size: 482

Molecular Weight: 55 kDa

Gene ID: 3065

NCBI Accession: [NM_004964](#), [NP_004955](#)

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

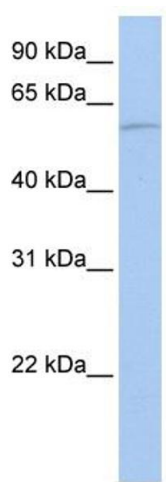
Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 482 AA

Application Details

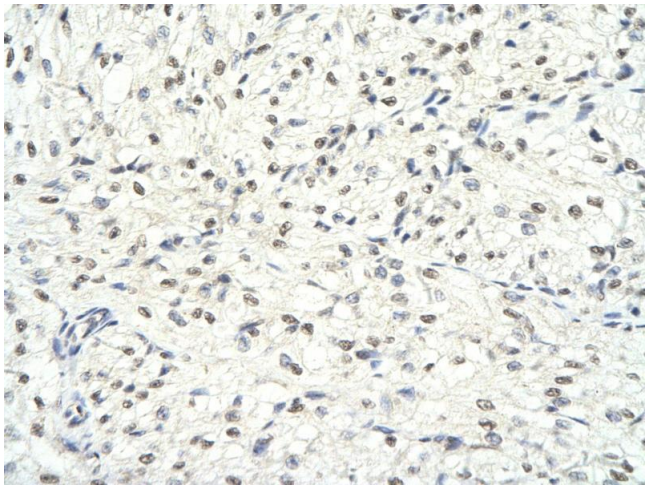
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



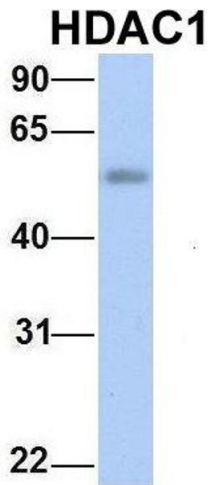
Western Blotting

Image 1. WB Suggested Anti-HDAC1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:2500 Positive Control: Jurkat cell lysate HDAC1 is supported by BioGPS gene expression data to be expressed in Jurkat



Immunohistochemistry

Image 2. Rabbit Anti-HDAC1 antibody Paraffin Embedded
Tissue: Human Heart cell Cellular Data: Epithelial cells of
renal tubule Antibody Concentration: 4.0-8.0 ug/ml
Magnification: 400X



Western Blotting

Image 3. Host: Rabbit Target Name: HDAC1 Sample Type:
Human Fetal Lung Antibody Dilution: 1.0ug/ml

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2779587.