

## Product datasheet for **TA336336**

### HDAC1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, Simple Western, WB
Recommended Dilution:	Western Blot: 2 ug/ml, Simple Western: 1:200, Knockout Validated, Immunohistochemistry-Paraffin: 1:10-1:500, Immunohistochemistry: 1:500, Immunohistochemistry-Frozen: 1:10-1:500
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This antibody was generated by immunizing rabbits with a mixture of synthetic peptides corresponding to amino acids 1-5, 433-448 and 467-482 of human HDAC1 (Genbank Accession no. Q13547).
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	histone deacetylase 1
Database Link:	<a href="#">NP_004955</a> <a href="#">Entrez Gene 3065 Human</a> <a href="#">Q13547</a>



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**Background:**

Histone deacetylase (HDAC) and histone acetyltransferase (HAT) are enzymes that regulate transcription by selectively deacetylating or acetylating the  $\epsilon$ -amino groups of lysines located near the amino termini of core histone proteins (1). Eight members of HDAC family have been identified in the past several years (2,3). These HDAC family members are divided into two classes, I and II. Class I of the HDAC family comprises four members, HDAC-1, 2, 3, and 8, each of which contains a deacetylase domain exhibiting from 45 to 93% identity in amino acid sequence. Class II of the HDAC family comprises HDAC-4, 5, 6, and 7, the molecular weights of which are all about twofold larger than those of the class I members, and the deacetylase domains are present within the C-terminal regions, except that HDAC-6 contains two copies of the domain, one within each of the N-terminal and C-terminal regions. Human HDAC-1, 2 and 3 were expressed in various tissues, but the others (HDAC-4, 5, 6, and 7) showed tissue-specific expression patterns (3). These results suggested that each member of the HDAC family exhibits a different, individual substrate specificity and function in vivo.

**Synonyms:**

GON-10; HD1; RPD3; RPD3L1

**Protein Families:**

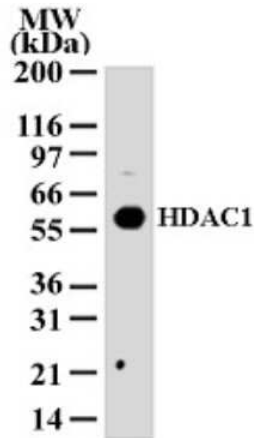
Adult stem cells, Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors

**Protein Pathways:**

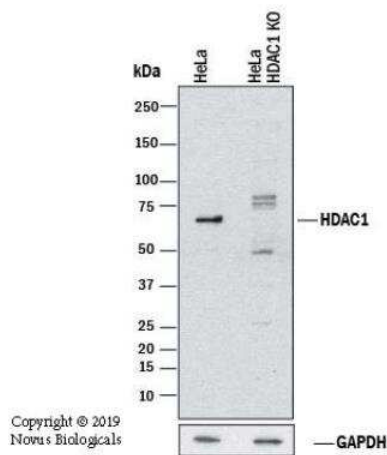
Cell cycle, Chronic myeloid leukemia, Huntington's disease, Notch signaling pathway, Pathways in cancer

**Product images:**

Simple Western: HDAC1 Antibody TA336336 - Simple Western lane view shows a specific band for HDAC1 in 0.5 mg/ml of HEK293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Western Blot: HDAC1 Antibody TA336336 - Analysis of HDAC1 in HEK293 cell lysate with this antibody.



Knockout Validated: HDAC1 Antibody TA336336 - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and HDAC1 knockout (KO) HeLa cell line. PVDF membrane was probed with 2.0 ug/ml of Rabbit Anti-Human HDAC1 Polyclonal Antibody (Catalog # TA336336) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for HDAC1 at approximately 65 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.

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