

## Product datasheet for **TA336265**

### HDAC3 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, ICC/IF, IHC, IP, Simple Western, WB
Recommended Dilution:	Western Blot: 2 - 5ug/ml, Simple Western: 1:25, Immunocytochemistry/ Immunofluorescence: 1:10, Immunoprecipitation: 1:10-1:500, Immunohistochemistry: 1:10-1:500, Immunohistochemistry-Paraffin: 1:10-1:500, Chromatin Immunoprecipitation (ChIP): 1:20-1:1000
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This antibody was generated by immunizing rabbits with a synthetic peptide corresponding to amino acids 2-17 of human HDAC3.
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 3
Database Link:	<a href="#">NP_003874</a> <a href="#">Entrez Gene 8841 Human</a> <a href="#">O15379</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. Eight members of HDAC family have been identified in the past several years. 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:**

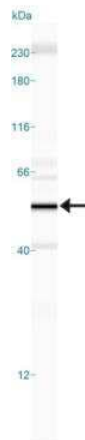
HD3; RPD3; RPD3-2

**Note:**

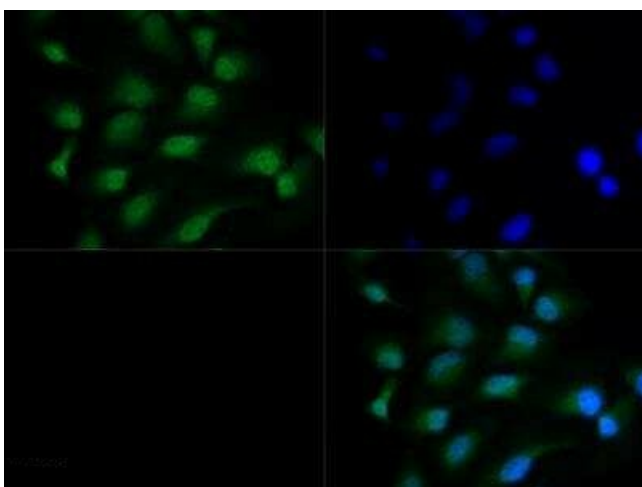
In HeLa, a 50 kDa band is observed.

**Protein Families:**

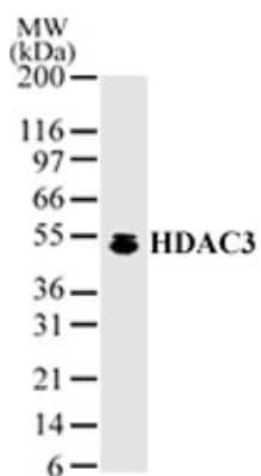
Druggable Genome, Transcription Factors

**Product images:**

Simple Western: HDAC3 Antibody TA336265 - Lane view shows a specific band for HDAC3 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Immunocytochemistry/Immunofluorescence: HDAC3 Antibody TA336265 - HDAC3 antibody was tested in HeLa cells with DyLight 488 (green). Nuclei were counterstained with DAPI (blue). An antibody dilution of 1:10 was used. Image objective 40x.



Western Blot: HDAC3 Antibody TA336265 - Analysis of HDAC3 in HeLa cell lysate with anti-HDAC3 this antibody.