

Product datasheet for **TA336337**

HDAC6 Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ChIP, ICC/IF, IP, Simple Western, WB |
| Recommended Dilution: | Chromatin Immunoprecipitation (ChIP): 1:20-1:1000, Immunoprecipitation: assay dependent, Western Blot: 2 - 5 ug/ml, Simple Western: 1:20, Immunocytochemistry/ Immunofluorescence: 2 - 5 ug/ml, Chromatin Immunoprecipitation: 1:20-1:1000 |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | This antibody was generated by immunizing rabbits with a synthetic peptide corresponding to amino acids 1-16 of human HDAC6. |
| 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 6 |
| Database Link: | NP_006035 Entrez Gene 15185 Mouse Entrez Gene 10013 Human Q9UBN7 |



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Background:

Histone deacetylase (HDAC) and histone acetyltransferase (HAT) are enzymes that regulate transcription by selectively deacetylating or acetylating the ϵ -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:

CPBHM; HD6; JM21; PPP1R90

Note:

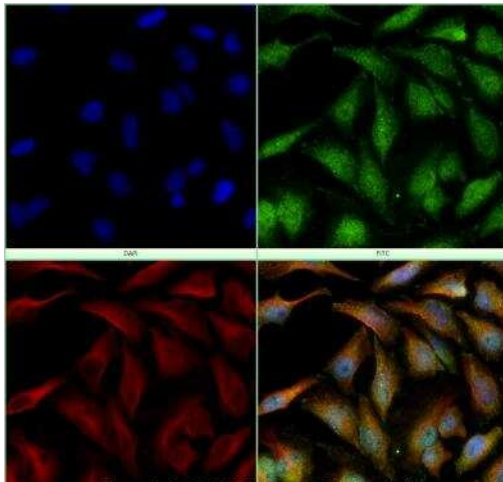
Chromatin Immunoprecipitation: Refer to Imbriano (2005) for details.

Protein Families:

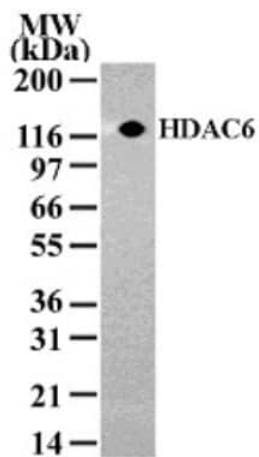
Druggable Genome, Transcription Factors

Product images:

Simple Western: HDAC6 Antibody TA336337 - Lane view shows a specific band for HDAC6 in 0.5 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Immunocytochemistry/Immunofluorescence: HDAC6 Antibody TA336337 - HeLa cells were fixed for 10 minutes using 4% PFA and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-HDAC6 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: HDAC6 Antibody TA336337 - Analysis of HDAC-6 in NIH-3T3 cell lysate with this antibody.