

Datasheet for ABIN387955

**anti-HDAC6 antibody (C-Term)**[Go to Product page](#)**2** Images**3** Publications

## Overview

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Quantity:            | 400 µL                                                                             |
| Target:              | HDAC6                                                                              |
| Binding Specificity: | AA 1182-1215, C-Term                                                               |
| Reactivity:          | Human                                                                              |
| Host:                | Rabbit                                                                             |
| Clonality:           | Polyclonal                                                                         |
| Conjugate:           | This HDAC6 antibody is un-conjugated                                               |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |                                                                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:    | This HDAC6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1182-1215 amino acids from the C-terminal region of human HDAC6. |
| Clone:        | RB5653                                                                                                                                                                   |
| Isotype:      | Ig Fraction                                                                                                                                                              |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                         |

## Target Details

|                   |                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------|
| Target:           | HDAC6                                                                                           |
| Alternative Name: | HDAC6 ( <a href="#">HDAC6 Products</a> )                                                        |
| Background:       | HDAC6 (histone deacetylase 6) is responsible for the deacetylation of lysine residues on the N- |

## Target Details

terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. HDAC6 plays a central role in microtubule-dependent cell motility via deacetylation of tubulin, and has been shown to interact with HDAC11, SIRT2, and F-actin. HDAC6 is ubiquitinated, but its polyubiquitination however does not lead to degradation. HDAC is also a potential target of sumoylation.

|                   |                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight: | 131419                                                                                                                                                    |
| Gene ID:          | 10013                                                                                                                                                     |
| NCBI Accession:   | <a href="#">NP_006035</a>                                                                                                                                 |
| UniProt:          | <a href="#">Q9UBN7</a>                                                                                                                                    |
| Pathways:         | <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a> |

## Application Details

|                    |                          |
|--------------------|--------------------------|
| Application Notes: | WB: 1:2000. IHC-P: 1:100 |
| Restrictions:      | For Research Use only    |

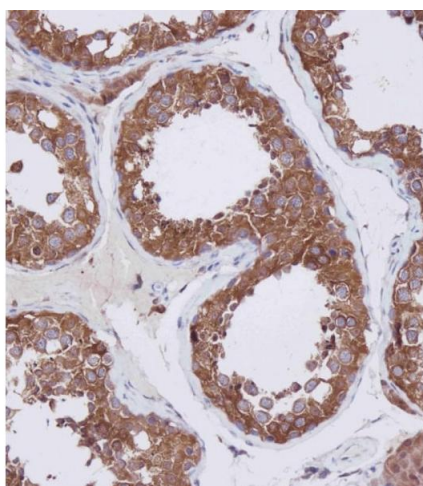
## Handling

|                    |                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                                     |
| Buffer:            | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.                                                               |
| 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:           | 4 °C, -20 °C                                                                                                                               |
| Storage Comment:   | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date:       | 6 months                                                                                                                                   |

## Publications

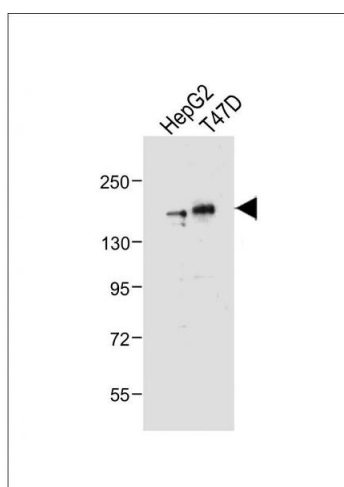
- Product cited in: Ran, Yang, Li, Liu, Zhou: "Deacetylation of  $\gamma$ -tubulin and cortactin is required for HDAC6 to trigger ciliary disassembly." in: **Scientific reports**, Vol. 5, pp. 12917, (2015) ([PubMed](#)).
- Yu, Diao, Wang, Lin, Yu, Lu, Xu, Li, Shi, Zhao, Zhou, Zhang: "Acetylproteomic analysis reveals functional implications of lysine acetylation in human spermatozoa (sperm)." in: **Molecular & cellular proteomics : MCP**, Vol. 14, Issue 4, pp. 1009-23, (2015) ([PubMed](#)).
- Wang, Chen, Zhang, Zhang, Zhuo, Liu, Jiang, Zhang: "PCM1 recruits Plk1 to the pericentriolar matrix to promote primary cilia disassembly before mitotic entry." in: **Journal of cell science**, Vol. 126, Issue Pt 6, pp. 1355-65, (2013) ([PubMed](#)).

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemical analysis of A on paraffin-embedded Human testis tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH 9.0). Samples were incubated with primary Antibody (1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



### Western Blotting

**Image 2.** All lanes : Anti-HDAC6 Antibody (C-term) at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: T47D whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 131 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.