

**HDAC2 Antibody**  
**Rabbit mAb**  
**Catalog # AP90888****Specification**

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**HDAC2 Antibody - Product Information**

Application	WB, IP
Primary Accession	<a href="#">Q92769</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
HD2; HDAC2; Histone deacetylase 2; RPD3; transcriptional regulator homolog RPD3; YAF1; YY1-associated factor 1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	55364 Da

**HDAC2 Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HDAC2
Description	HAT complexes interact with sequence-specific activator proteins to target specific genes. In addition to histones, HATs can acetylate nonhistone proteins, suggesting multiple roles for these enzymes. In contrast, histone deacetylation promotes a "closed" chromatin conformation and typically leads to repression of gene activity.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**HDAC2 Antibody - Protein Information**

**Name** HDAC2 {ECO:0000303|PubMed:10545197, ECO:0000312|HGNC:HGNC:4853}

**Function**

Histone deacetylase that catalyzes the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) (PubMed:<a href="http://www.uniprot.org/citations/28497810" target="\_blank">28497810</a>). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events (By similarity). Histone deacetylases act via the formation of large multiprotein complexes (By similarity). Forms transcriptional

repressor complexes by associating with MAD, SIN3, YY1 and N-COR (PubMed:<a href="http://www.uniprot.org/citations/12724404" target="\_blank">12724404</a>). Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development (By similarity). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:<a href="http://www.uniprot.org/citations/16428440" target="\_blank">16428440</a>, PubMed:<a href="http://www.uniprot.org/citations/28977666" target="\_blank">28977666</a>). Component of the SIN3B complex that represses transcription and counteracts the histone acetyltransferase activity of EP300 through the recognition H3K27ac marks by PHF12 and the activity of the histone deacetylase HDAC2 (PubMed:<a href="http://www.uniprot.org/citations/37137925" target="\_blank">37137925</a>). Also deacetylates non-histone targets: deacetylates TSHZ3, thereby regulating its transcriptional repressor activity (PubMed:<a href="http://www.uniprot.org/citations/19343227" target="\_blank">19343227</a>). May be involved in the transcriptional repression of circadian target genes, such as PER1, mediated by CRY1 through histone deacetylation (By similarity). Involved in MTA1-mediated transcriptional corepression of TFF1 and CDKN1A (PubMed:<a href="http://www.uniprot.org/citations/21965678" target="\_blank">21965678</a>). In addition to protein deacetylase activity, also acts as a protein-lysine deacylase by recognizing other acyl groups: catalyzes removal of (2E)-butenoyl (crotonyl), lactoyl (lactyl) and 2-hydroxyisobutanoyl (2-hydroxyisobutyryl) acyl groups from lysine residues, leading to protein deacetylation, delactylation and de-2-hydroxyisobutyrylation, respectively (PubMed:<a href="http://www.uniprot.org/citations/28497810" target="\_blank">28497810</a>, PubMed:<a href="http://www.uniprot.org/citations/29192674" target="\_blank">29192674</a>, PubMed:<a href="http://www.uniprot.org/citations/35044827" target="\_blank">35044827</a>).

**Cellular Location**

Nucleus. Cytoplasm

**Tissue Location**

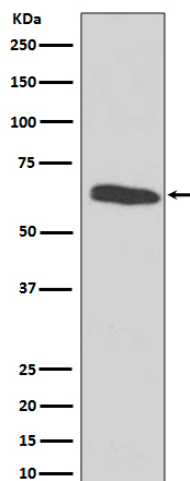
Widely expressed; lower levels in brain and lung.

**HDAC2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HDAC2 Antibody - Images**



Western blot analysis of HDAC2 expression in HeLa cell lysate.