

Goat Anti-Hdac2 (mouse) Antibody
Peptide-affinity purified goat antibody
Catalog # AF4331a

Specification

Goat Anti-Hdac2 (mouse) Antibody - Product Information

Application	WB, IF, FC
Primary Accession	P70288
Other Accession	NP_032255.2
Reactivity	Human, Mouse
Host	Goat
Clonality	Polyclonal
Calculated MW	55302

Goat Anti-Hdac2 (mouse) Antibody - Additional Information

Gene ID 15182

Other Names

D10Wsu179e, HD2, histone deacetylase 2, mRPD3, OTTMUSP00000022803, YAF1, YY1 transcription factor-binding protein, Yy1bp, Hdac2

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Immunogen

Peptide with sequence C-PEDAVHEDSGDE, from the internal region of the protein sequence according to NP_032255.2.

Storage

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.

Precautions

Goat Anti-Hdac2 (mouse) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Hdac2 (mouse) Antibody - Protein Information

Name Hdac2 {ECO:0000312|MGI:MGI:1097691}

Synonyms Yy1bp

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:18754010). Histone

deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events (PubMed:18754010). Histone deacetylases act via the formation of large multiprotein complexes (PubMed:18754010). Forms transcriptional repressor complexes by associating with MAD, SIN3, YY1 and N-COR (By similarity). 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 (PubMed:17707228). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (By similarity). 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 (By similarity). Also deacetylates non-histone targets: deacetylates TSHZ3, thereby regulating its transcriptional repressor activity (By similarity). May be involved in the transcriptional repression of circadian target genes, such as PER1, mediated by CRY1 through histone deacetylation (PubMed:15226430). Involved in MTA1-mediated transcriptional corepression of TFF1 and CDKN1A (PubMed:20071335). In addition to protein deacetylase activity, also acts as a protein-lysine deacylase by recognizing other acyl groups: catalyzes removal of (2E)-butenoyl (crotonyl) and 2-hydroxyisobutanoyl (2-hydroxyisobutyryl) acyl groups from lysine residues, leading to protein decrotonylation and de-2-hydroxyisobutyrylation, respectively (PubMed:30279482).

Cellular Location

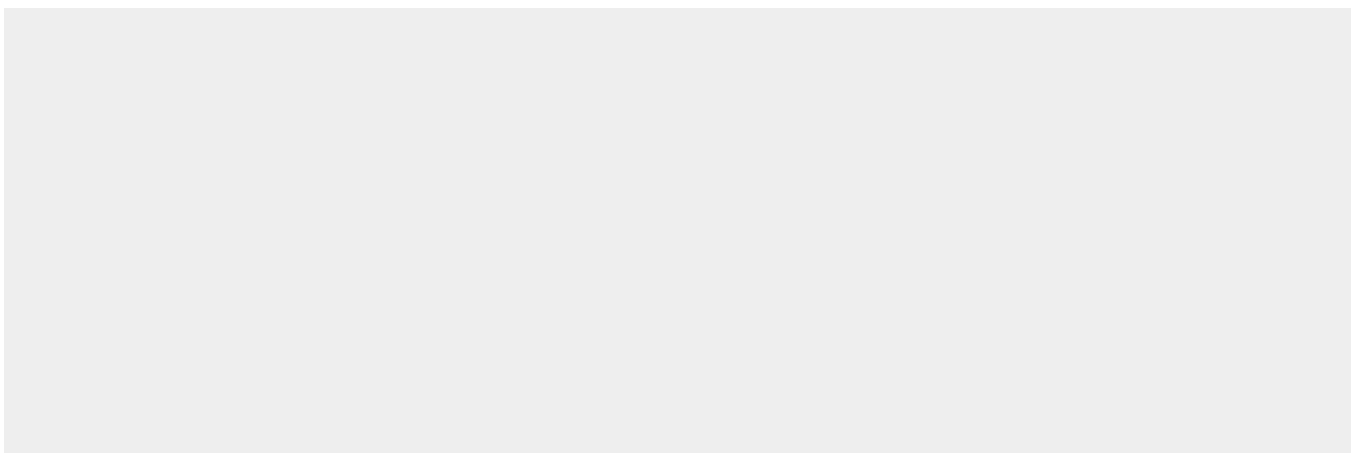
Nucleus {ECO:0000250|UniProtKB:Q92769}. Cytoplasm {ECO:0000250|UniProtKB:Q92769}

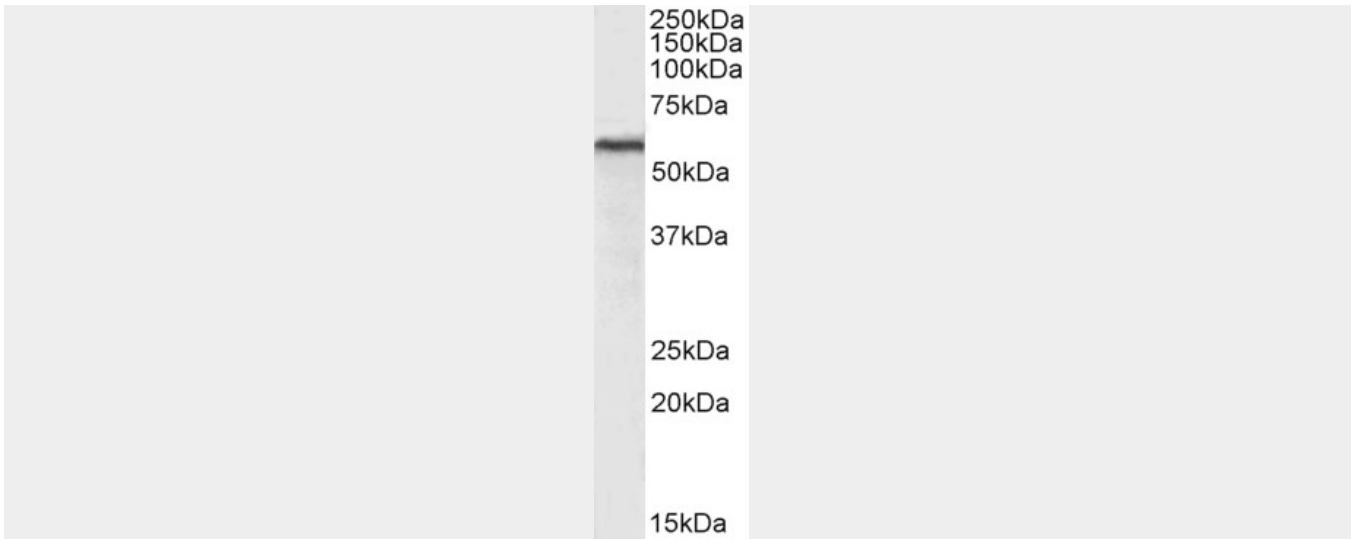
Goat Anti-Hdac2 (mouse) Antibody - Protocols

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

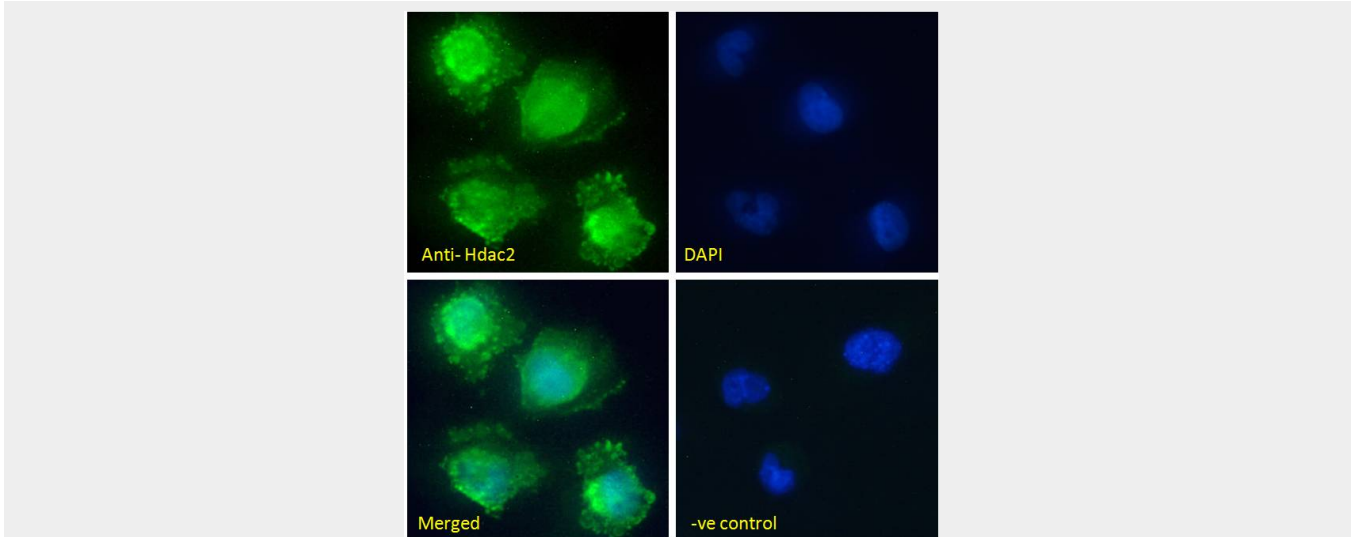
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Hdac2 (mouse) Antibody - Images

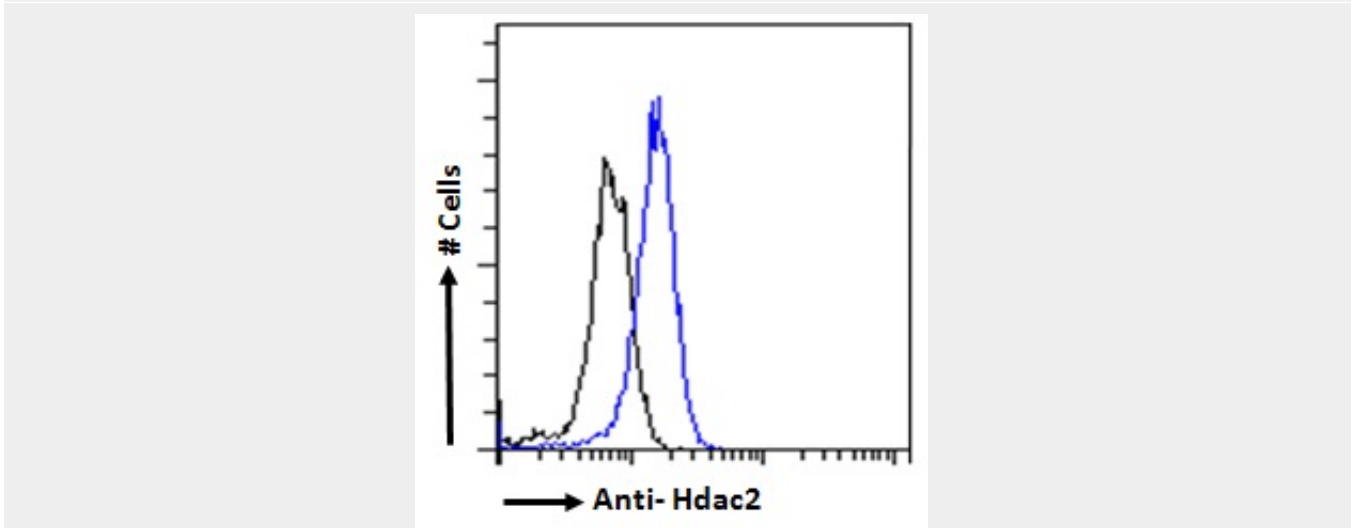




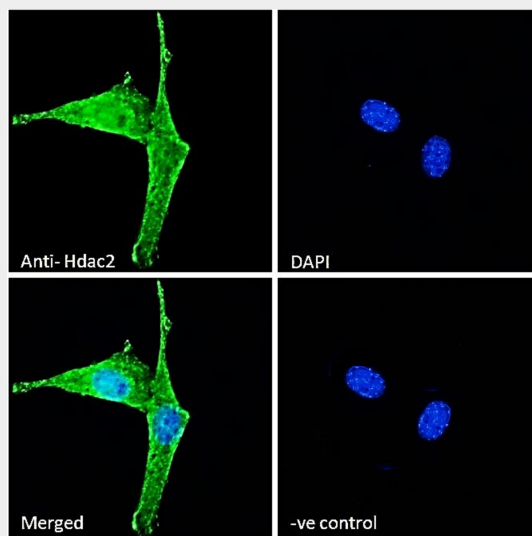
EB11448 (1 $\mu\text{g/ml}$) staining of HEK293 nuclear cell lysate. (35 μg protein in RIPA buffer). Detected by chemiluminescence.



EB11448 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 $\mu\text{g/ml}$) followed by Alexa Fluor 488 secondary antibody (2 $\mu\text{g/ml}$), showing nuclear staining. The nuclear stain is DAPI (blue)



EB11448 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml). IgG control: Unimmunized goat IgG (black line) fol



EB11448 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane, cytoplasmic and nuclear staining. The