

Datasheet for ABIN5557480

anti-HDAC2 antibody

5 Images

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Overview

| | |
|--------------|---|
| Quantity: | 100 µL |
| Target: | HDAC2 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Monoclonal |
| Conjugate: | This HDAC2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)) |

Product Details

| | |
|-------------------|---|
| Immunogen: | Recombinant human HDAC2 protein, around C-terminal 150aa. |
| Clone: | 3B7 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|---|
| Target: | HDAC2 |
| Alternative Name: | HDAC2 (HDAC2 Products) |
| Background: | Synonyms: HD2, RPD3, YAF1, Histone deacetylase 2, HDAC2 |

Target Details

Background: Responsible for the deacetylation of lysine residues on the N-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. Forms transcriptional repressor complexes by associating with MAD, SIN3, YY1 and N-COR. Interacts in the late S-phase of DNA-replication with DNMT1 in the other transcriptional repressor complex composed of DNMT1, DMAP1, PCNA, CAF1. Deacetylates TSHZ3 and regulates its transcriptional repressor activity. 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. May be involved in the transcriptional repression of circadian target genes, such as PER1, mediated by CRY1 through histone deacetylation. Involved in MTA1-mediated transcriptional corepression of TFF1 and CDKN1A.

Gene ID: 3066

UniProt: [Q92769](#)

Pathways: [Neurotrophin Signaling Pathway](#), [Regulation of Muscle Cell Differentiation](#), [Negative Regulation of intrinsic apoptotic Signaling](#), [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

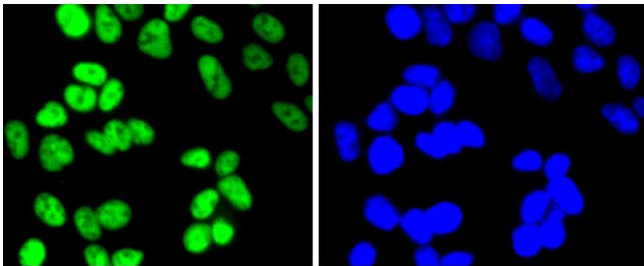
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

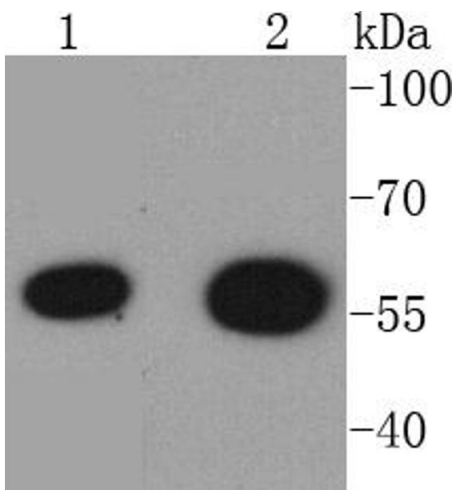
| | |
|------------------|---|
| | handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

Images



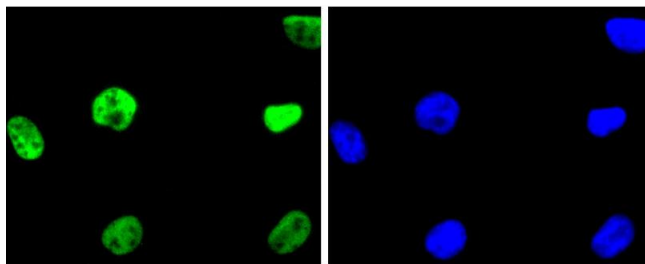
Immunofluorescence (Cultured Cells)

Image 1. HeLa cells were fixed in paraformaldehyde, permeabilized with 0.25% Triton X100/PBS and stained with HDAC2 (3B7) Monoclonal Antibody at 1:200 and incubated overnight at 4C, followed by secondary antibody incubation, DAPI staining of the nuclei and detection.



Western Blotting

Image 2. Lane 1: 293T Cell lysates, Lane 2: K562 lysates, probed with HDAC2 (3B7) Monoclonal Antibody at 1:1000 overnight at 4°C. Followed by a conjugated secondary antibody.



Immunofluorescence (Cultured Cells)

Image 3. SHG-44 cells were fixed in paraformaldehyde, permeabilized with 0.25% Triton X100/PBS and stained with HDAC2 (3B7) Monoclonal Antibody at 1:200 and incubated overnight at 4C, followed by secondary antibody incubation, DAPI staining of the nuclei and detection.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5557480.