

HDAC1 (PTR1326) Mouse mAb

CatalogNo: YM4739 **Recombinant** 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, ELISA

MW

- 55kD (Calculated)
- 62kD (Observed)

Isotype

- IgG1, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:500-2000**IF 1:100-500****ELISA 1:1000-5000**

Basic Information

Clonality Monoclonal**Clone Number** PTR1326

Immunogen Information

Immunogen Synthesized peptide derived from human protein. AA range: 300-482**Specificity** This antibody detects endogenous levels of HDAC1 protein.

| Target Information

Gene name HDAC1 RPD3L1

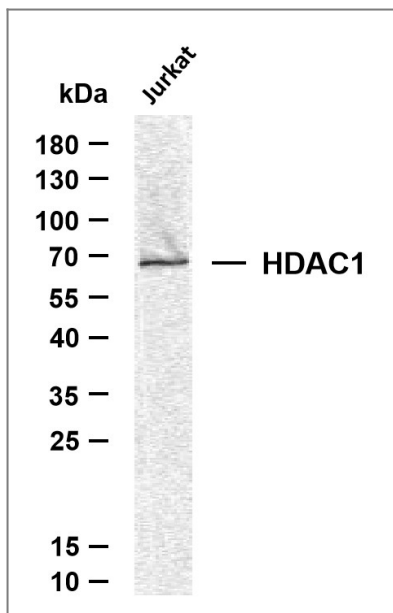
Protein Name Histone deacetylase 1 (HD1) (EC 3.5.1.98)

Organism	Gene ID	UniProt ID
Human	3065 ;	Q13547 ;
Mouse	433759 ;	O09106 ;

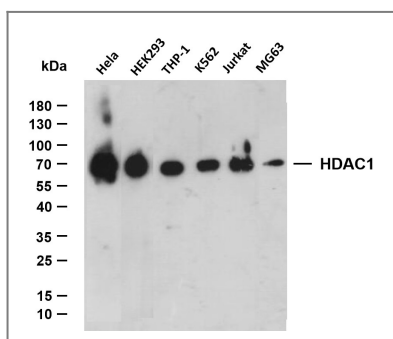
Tissue specificity Ubiquitous, with higher levels in heart, pancreas and testis, and lower levels in kidney and brain.

Function Histone deacetylase that catalyzes 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 . Also functions as deacetylase for non-histone targets, such as NR1D2, RELA, SP1, SP3 and TSHZ3 . Deacetylates SP proteins, SP1 and SP3, and regulates their function . Component of the BRG1-RB1-HDAC1 complex, which negatively regulates the CREST-mediated transcription in resting neurons . Upon calcium stimulation, HDAC1 is released from the complex and CREBBP is recruited, which facilitates transcriptional activation . Deacetylates TSHZ3 and regulates its transcriptional repressor activity . Deacetylates 'Lys-310' in RELA and thereby inhibits the transcriptional activity of NF-kappa-B . Deacetylates NR1D2 and abrogates the effect of KAT5-mediated relieving of NR1D2 transcription repression 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 (By similarity). Involved in CIART-mediated transcriptional repression of the circadian transcriptional activator: CLOCK-ARNTL/BMAL1 heterodimer (By similarity). Required for the transcriptional repression of circadian target genes, such as PER1, mediated by the large PER complex or CRY1 through histone deacetylation (By similarity). In addition to protein deacetylase activity, also has protein-lysine deacylase activity: acts as a protein decrotonylase by mediating decrotonylation ((2E)-butenoyl) of histones .

| Validation Data



Whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HDAC1(PTR1326) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat



Various whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HDAC1(PTR1326) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HEK293 Lane 3: THP-1 Lane 4: K562 Lane 5: Jurkat Lane 6: MG63

Contact information

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Please scan the QR code to access additional product information:
HDAC1 (PTR1326)
Mouse mAb

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