Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

Rev.: 2018/12/5

HDAC1
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

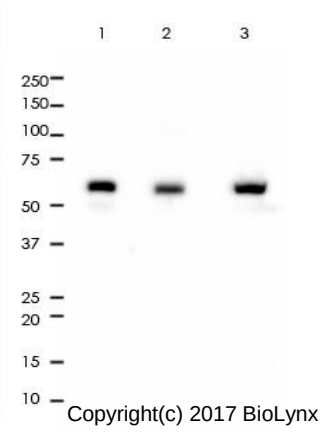
Catalog# BX00068
Clone# RR672

Predicted Molecular Wt: 55kDa
Species Cross-reactivity: Human Bovine Green Monkey
Species cross-reactivity determined by WB
Applications: WB IHC-P IF/ICC FC

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q13547

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. 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.



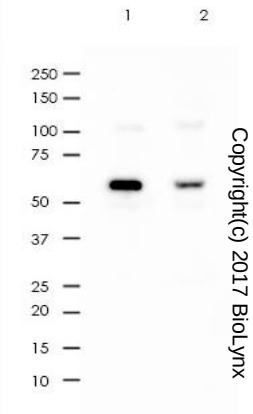
All lanes: Anti-HDAC1 antibody at 1:1,000 dilution
Predicted MW: 55 kDa
Observed MW: 65 kDa

Lane 1: Jurkat
Lane 2: K562
Lane 3: Molt-4

Lysate at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 20s

Immunogen:

A synthetic peptide corresponding to the C-term of HDAC1 was used as an immunogen.



All lanes: Anti-HDAC1 antibody at 1:1,000 dilution
Predicted MW: 55 kDa
Observed MW: 65 kDa

Lane 1: MDBK
Lane 2: COS-7

Lysate at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 60s

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

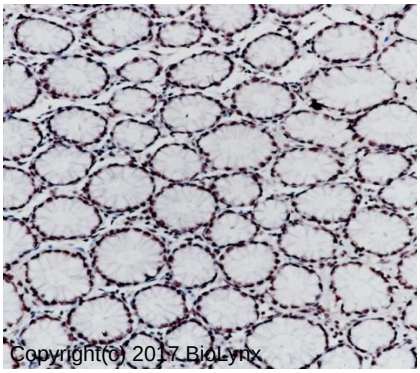
-20°C.

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

WB:	1:1,000 - 1:2,000
IHC-P:	1:100 - 1:200
IF/ICC:	1:200 - 1:500
FC:	1:50 - 1:200



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis human colon tissue labelling HDAC1 with RR672 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

Background References:

1. Asensio-Juan E et al. Nucleic Acids Res 45:3800-3811 (2017).

2. Tsukamoto D et al. Sci Rep 7:44279 (2017).

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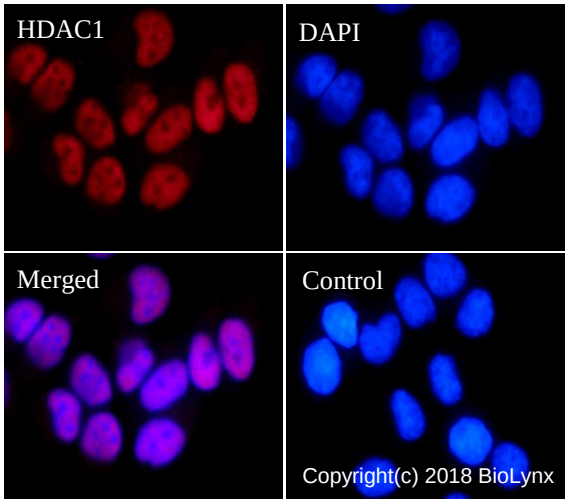
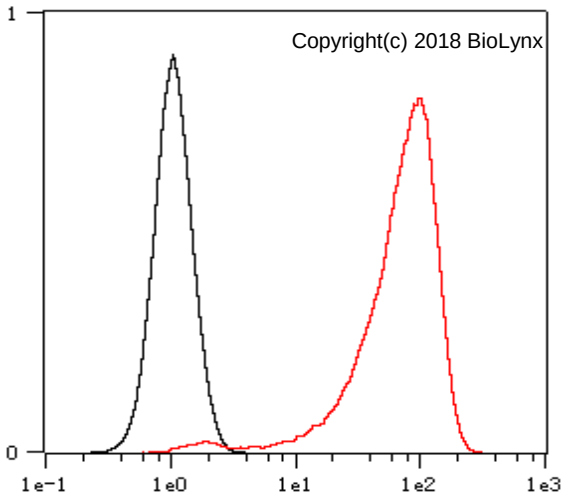


RR672 staining HDAC1 in Hela cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:500) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing Hela cells stained with RR672 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR672, 1:200 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.