

bs-1414R**[Primary Antibody]****HDAC1 Rabbit pAb****Bioss**
ANTIBODIES

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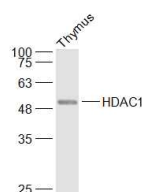
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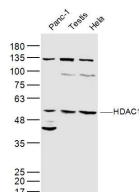
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 3065**SWISS:** Q13547**Target:** HDAC1**Immunogen:** KLH conjugated synthetic peptide derived from human HDAC1: 381-482/482.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

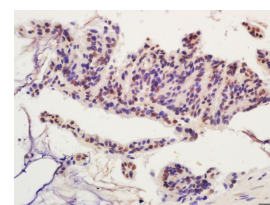
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq, Jul 2008]**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1:50-300)**Reactivity:** Human, Mouse, GuineaPig
(predicted: Rat, Pig, Sheep, Cow, Dog)**Predicted MW.:** 53 kDa**Subcellular Location:** Nucleus**VALIDATION IMAGES**

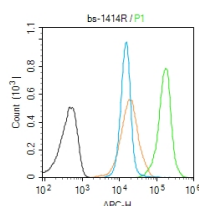
Sample: Thymus (Mouse) Lysate at 40 ug
 Primary: Anti-HDAC1 (bs-1414R) at 1/1000
 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53 kD Observed band size: 53 kD



Sample: Panc-1(Human) Cell Lysate at 40 ug
 Testis (Mouse) Lysate at 40 ug HeLa(Human)
 Lysate at 40 ug Primary: Anti-HDAC1 (bs-1414R)
 at 1/300 dilution Secondary: IRDye800CW Goat
 Anti-Rabbit IgG at 1/20000 dilution Predicted
 band size: 53 kD Observed band size: 53 kD



Tissue/cell: human colon carcinoma; 4%
 Paraformaldehyde-fixed and paraffin-
 embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
 endogenous peroxidase by 3% Hydrogen
 peroxide for 30min; Blocking buffer (normal goat
 serum, C-0005) at 37°C for 20 min; Incubation:
 Anti-HDAC1 Polyclonal Antibody,
 Unconjugated(bs-1414R) 1:200, overnight at 4°C,
 followed by conjugation to the secondary
 antibody(SP-0023) and DAB(C-0010) staining



Blank control (Black line):Molt4 (Black). Primary
 Antibody (green line): Rabbit Anti-HDAC1
 antibody (bs-1414R) Dilution: 1µg /10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /test.
 Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=11.059]** Wu W et al. Cholesterol derivatives induce dephosphorylation of the histone deacetylases Rpd3/HDAC1 to upregulate autophagy. *Autophagy*. 2020 Feb 4. WB ;Silkworm&Human. 32013726
- **[IF=6.575]** Qiyu Gan. et al. Prognostic Value and Immune Infiltration of HPV-Related Genes in the Immune Microenvironment of Cervical Squamous Cell Carcinoma and Endocervical Adenocarcinoma. *CANCERS*. 2023 Jan;15(5):1419 IHC ;Human. 36900213
- **[IF=5.714]** Li D et al. Oxygenated Polycyclic aromatic hydrocarbons (Oxy-PAHs) facilitate lung cancer metastasis by epigenetically regulating the epithelial-to-mesenchymal transition (EMT). *Environ Pollut*. 2019 Sep 17;255(Pt 2):113261. WB ;Human. 31580991
- **[IF=5.656]** Li H et al. PFN2a Suppresses C2C12 Myogenic Development by Inhibiting Proliferation and Promoting Apoptosis via the p53 Pathway. *Cells*. 2019 Aug 23;8(9). pii: E959. WB ;Mouse. 31450751
- **[IF=4.35]** Xin Fan. et al. Anti-Colon Cancer Activity of Novel Peptides Isolated from In Vitro Digestion of Quinoa Protein in Caco-2 Cells. *Foods*. 2022 Jan;11(2):194 WB ;Human. 35053925