

bs-10024R**[Primary Antibody]****HDAC3 Rabbit pAb****Bioss**
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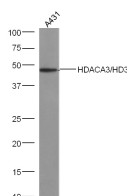
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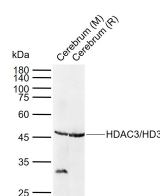
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 8841**SWISS:** O15379**Target:** HDAC3**Immunogen:** KLH conjugated synthetic peptide derived from human HDAC3/HD3: 31-130/428.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

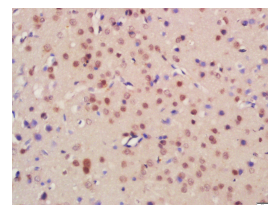
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008]**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**ICC/IF** (1:100)**Reactivity:** Human, Mouse, Rat
(predicted: Pig, Cow, Chicken, Horse)**Predicted MW.:** 47 kDa**Subcellular Location:** Cell membrane ,Nucleus**— VALIDATION IMAGES —**

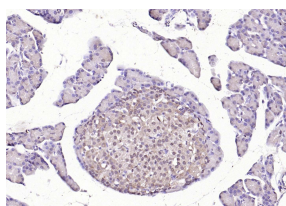
Sample: A431 (human) Cell Lysate at 40 ug
 Primary: Anti-HDAC3/HD3(bs-10024R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 47 kD Observed band size: 47 kD



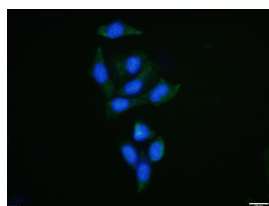
Sample: Lane 1: Mouse Cerebrium tissue lysates
 Lane 2: Rat Cerebrium tissue lysates
 Primary: Anti-HDAC3/HD3 (bs-10024R) at 1/500 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 47 kDa Observed band size: 47 kDa



Tissue/cell: rat brain tissue; 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-HDAC3 Polyclonal Antibody, Unconjugated(bs-10024R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20

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endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HDAC3/HD3) Polyclonal Antibody, Unconjugated (bs-10024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

min; Antibody incubation with (HDAC3) polyclonal Antibody, Unconjugated (bs-10024R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=4.5]** Miao Yan. et al. Bifidobacterium longum Metabolite Indole-3-Carboxaldehyde Blocks HDAC3 and Inhibits Macrophage NLRP3 Inflammasome Activation in Intestinal Ischemia/Reperfusion Injury. INFLAMMATION. 2024 Dec;;1-16 IHC,WB ;Mouse. 39663332
- **[IF=4.7]** Ming Luo. et al. Fecal Microbiota Transplantation Alleviates Cirrhotic Portal Hypertension in Rats via Butyrate-Mediated HDAC3 Inhibition and PI3K/Akt/eNOS Signaling Regulation. EUR J PHARMACOL. 2025 May;;177781 WB ;Rat. 40441587