

# Product Datasheet

## HDAC1 Antibody - BSA Free

### NBP1-31294

Unit Size: 100 ul

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 2/21/2025 v.20.1

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**NBP1-31294**

HDAC1 Antibody - BSA Free

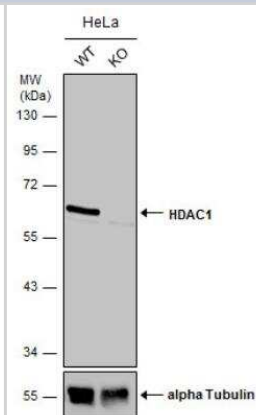
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS (pH 7), 20% Glycerol
Target Molecular Weight	55 kDa

Product Description	
Host	Rabbit
Gene ID	3065
Gene Symbol	HDAC1
Species	Human, Mouse, Rat, Zebrafish
Reactivity Notes	Xenopus laevis (80%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human HDAC1. The exact sequence is proprietary.

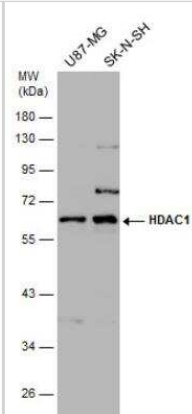
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, SDS-Page, Chromatin Immunoprecipitation (ChIP), Knockout Validated
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen, SDS-Page, Chromatin Immunoprecipitation (ChIP), Knockout Validated

**Images**

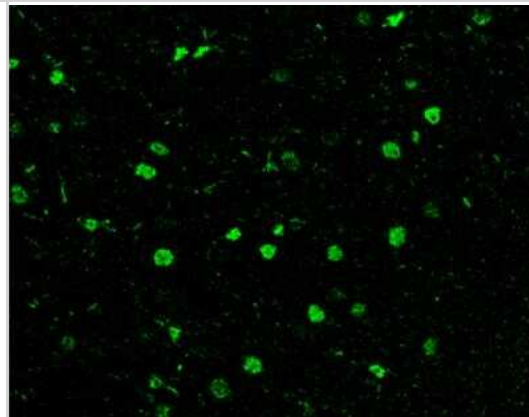
Western Blot: HDAC1 Antibody [NBP1-31294] - Wild-type (WT) and HDAC1 knockout (KO) HeLa cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with HDAC1 antibody. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



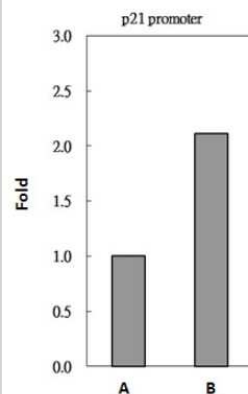
Western Blot: HDAC1 Antibody [NBP1-31294] - Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with HDAC1 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



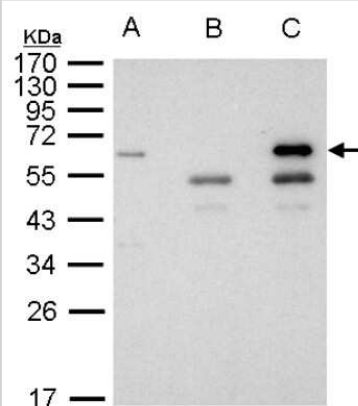
Immunohistochemistry-Paraffin: HDAC1 Antibody [NBP1-31294] - Rat brain. Green: HDAC1 antibody diluted at 1:200. The signal was developed using goat anti-rabbit IgG antibody (Dylight488). Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



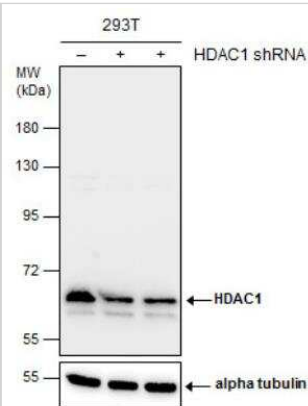
Chromatin Immunoprecipitation: HDAC1 Antibody [NBP1-31294] - Sample: 293T whole cell lysate/extract A. 5 ug preimmune rabbit IgG, B. 5 ug of HDAC1 antibody The precipitated DNA was detected by PCR with primer set targeting to p21 promoter.



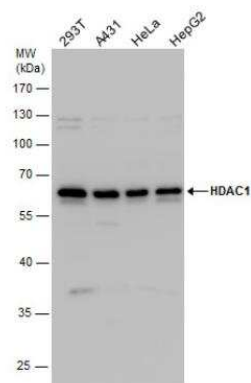
Western Blot: HDAC1 Antibody [NBP1-31294] - Sample: 1000 ug 293T whole cell lysate/extract A. 40 ug 293T whole cell lysate/extract, B. Control with 2.5 ug of preimmune rabbit IgG, C. Immunoprecipitation of HDAC1 protein by 2.5 ug of HDAC1 antibody 10% SDS-PAGE gel.



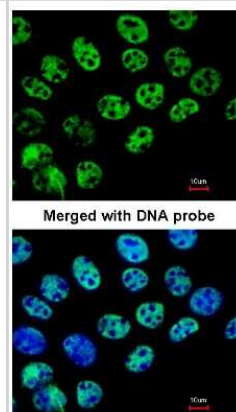
Western Blot: HDAC1 Antibody [NBP1-31294] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HDAC1 antibody. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



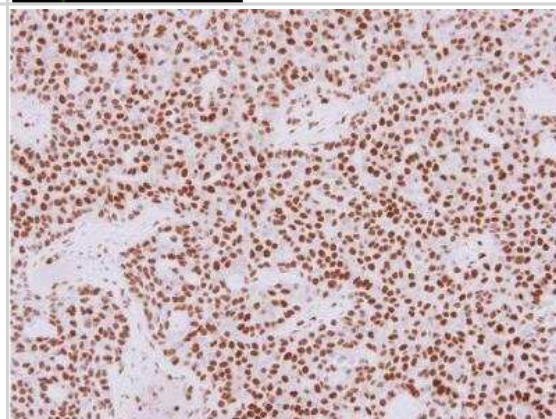
Western Blot: HDAC1 Antibody [NBP1-31294] - Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with HDAC1 antibody diluted by 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



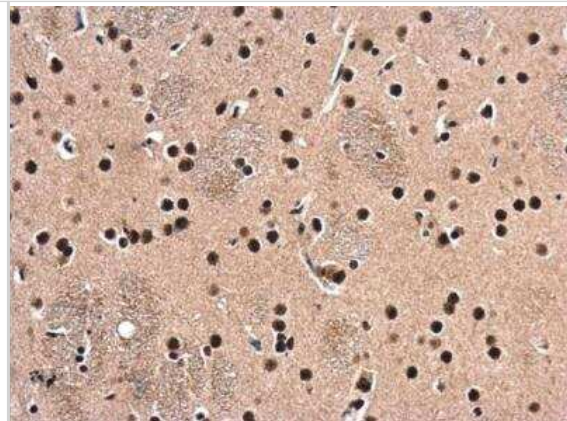
Immunocytochemistry/Immunofluorescence: HDAC1 Antibody [NBP1-31294] - Analysis of A431, using HDAC1 antibody at 1:200 dilution.



Immunohistochemistry-Paraffin: HDAC1 Antibody [NBP1-31294] - Sample: Paraffin-embedded mouse liver. HDAC1 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



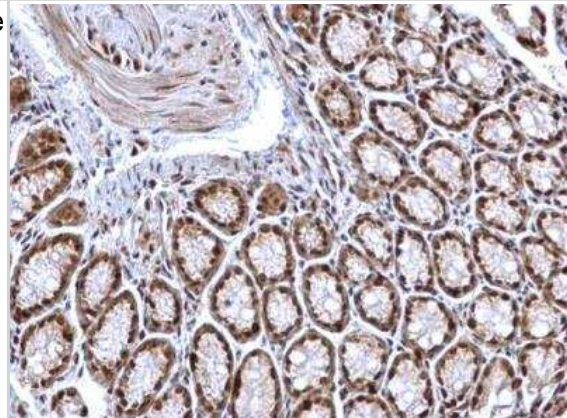
Immunohistochemistry-Paraffin: HDAC1 Antibody [NBP1-31294] - Rat brain. HDAC1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



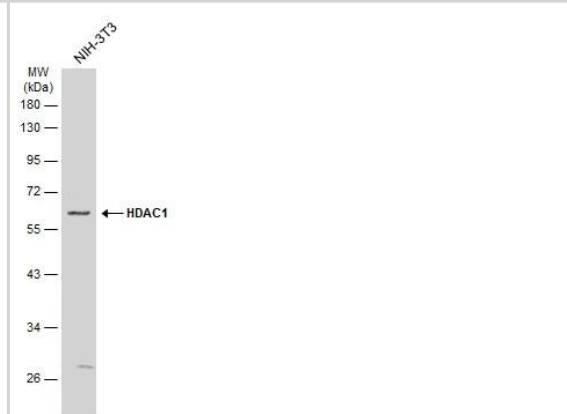
Immunohistochemistry-Paraffin: HDAC1 Antibody [NBP1-31294] - Mouse liver. HDAC1 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



Immunohistochemistry-Paraffin: HDAC1 Antibody [NBP1-31294] - Mouse colon. HDAC1 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.

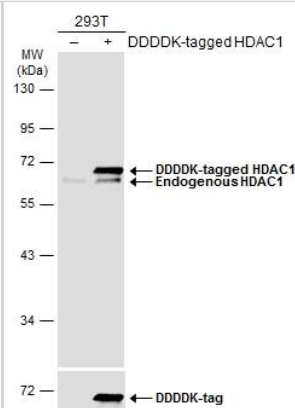


Western Blot: HDAC1 Antibody [NBP1-31294] - Whole cell extract (30 ug) was separated by 10% SDS-PAGE, and the membrane was blotted with HDAC1 antibody (NBP1-31294) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

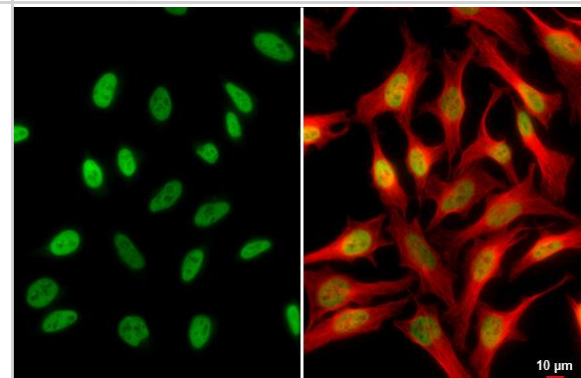




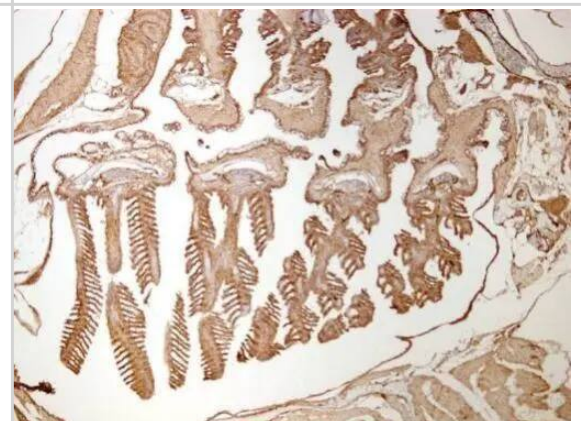
Western Blot: HDAC1 Antibody [NBP1-31294] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with HDAC1 antibody (NBP1-31294) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Immunocytochemistry/ Immunofluorescence: HDAC1 Antibody [NBP1-31294] - HDAC1 antibody detects HDAC1 protein at nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: HDAC1 stained by HDAC1 antibody (NBP1-31294) diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000. Scale bar= 10um.



Immunohistochemistry: HDAC1 Antibody [NBP1-31294] - Immunohistochemical analysis of paraffin-embedded zebrafish tissue, using HDAC1 antibody (NBP1-31294) at 1:300 dilution.

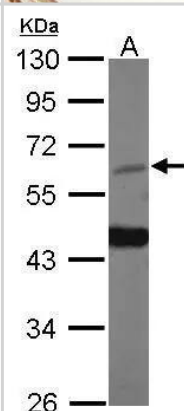


Western Blot: HDAC1 Antibody [NBP1-31294] - Sample (30 ug of whole cell lysate)

A: zebrafish eye

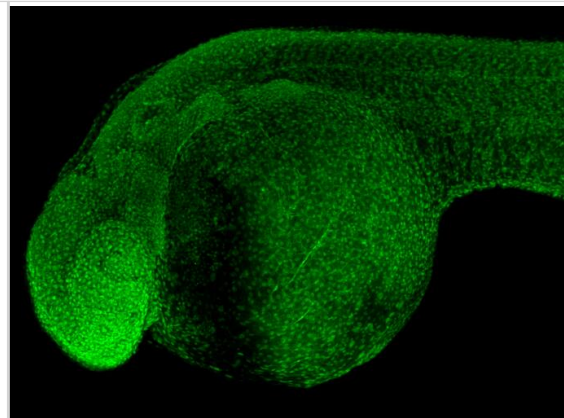
10% SDS PAGE

NBP1-31294 diluted at 1:1000

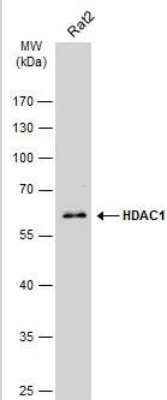


Immunohistochemistry: HDAC1 Antibody [NBP1-31294] - HDAC1 antibody detects Hdac1 protein on zebrafish by whole mount immunohistochemical analysis.

Sample: 2 days-post-fertilization zebrafish embryo.  
HDAC1 antibody (NBP1-31294) dilution: 1:100.



Western Blot: HDAC1 Antibody [NBP1-31294] - Whole cell extract (30 ug) was separated by 10% SDS-PAGE, and the membrane was blotted with HDAC1 antibody (NBP1-31294) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.





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### **Products Related to NBP1-31294**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00003065-P01-10ug	Recombinant Human HDAC1 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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