

# Product Datasheet

## HDAC1 Antibody - BSA Free

### NBP1-78101

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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**NBP1-78101**

HDAC1 Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.01% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

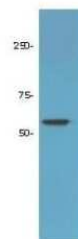
Product Description	
<b>Description</b>	<p>HDAC-1 antibody was affinity purified from monospecific antiserum by immunoaffinity purification</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
<b>Host</b>	Rabbit
<b>Gene ID</b>	3065
<b>Gene Symbol</b>	HDAC1
<b>Species</b>	Human
<b>Reactivity Notes</b>	A BLAST analysis was used to suggest reactivity with this protein from human, mouse, rat and chimpanzee sources based on 100% homology for the immunogen sequence. Cross reactivity may occur with HDAC1 from bovine (82% homology) and chicken (80% homology) sources. Cross reactivity with HDAC1 homologues from other sources has not been determined.
<b>Immunogen</b>	HDAC1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a C-Terminal region near amino acids 450-482 of Human HDAC1. (Uniprot: Q13547)

Product Application Details	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:5000, ELISA 1:10000-1:50000, Immunohistochemistry 1:200-1:1000, Immunocytochemistry/ Immunofluorescence 10ug / ml, Immunohistochemistry-Paraffin 1:10-1:500
<b>Application Notes</b>	This product has been tested for use in ELISA, immunohistochemistry, immunofluorescence, and western blot. Specific conditions for reactivity should be optimized by the end user. Specific nuclear staining is observed by IHC. Expect bands at 65 kDa in size corresponding to HDAC-1 by western blotting in the appropriate cell lysate or extract.

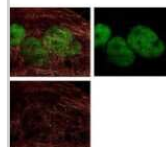


## Images

Western Blot: HDAC1 Antibody [NBP1-78101] - Western Blot of HDAC1 antibody. Lane 1: LNCaP prostate cancer cells. Load: 50 ug per lane. Primary antibody: HDAC1 antibody at 1:1000 for overnight at 4C. Secondary antibody: IRDye800(TM) rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4C. Predicted/Observed size: 55kDa for HDAC1.



Immunocytochemistry/Immunofluorescence: HDAC1 Antibody [NBP1-78101] - Immunofluorescence Microscopy of HDAC1 antibody. Tissue: A431 cells. Fixation: methanol. Antigen retrieval: blocked with normal goat serum. Primary antibody: HDAC1 antibody at 4 ug/mL for 1 h at RT. Secondary antibody: rabbit secondary antibody at 0.2 ug/mL for 45 min at RT. Localization: HDAC1 is nuclear. Staining: HDAC1 as green fluorescent signal. A-tubulin monoclonal antibody detected with ATTO 425 (colored RED). 2-color STED image, Leica Microsystems.



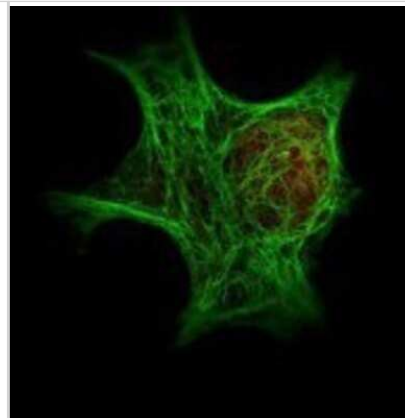
Immunohistochemistry: HDAC1 Antibody [NBP1-78101] - Immunohistochemistry of HDAC1 antibody. Tissue: human lung tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HDAC1 antibody at 10 ug/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HDAC1 is nuclear. Staining: HDAC1 as brown color indicates presence of protein, blue color shows cell nuclei.



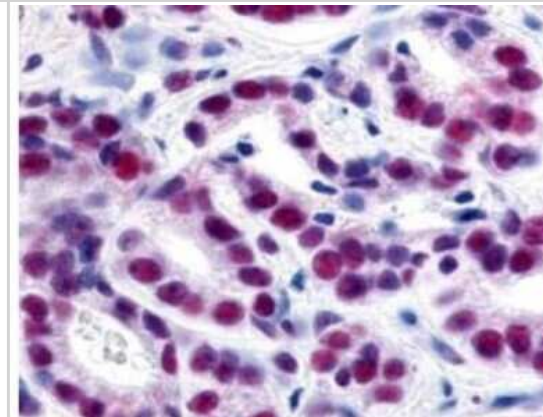
Western Blot: HDAC1 Antibody [NBP1-78101] - Western Blot of HDAC1 antibody. Lane 1: 293 whole cell lysate. Load: 35 ug per lane. Primary antibody: HDAC1 antibody at 1:3,500 for overnight at 4C. Secondary antibody: IRDye800(TM) rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4C. Predicted/Observed size: ~65 kDa corresponding to human HDAC1. Other band(s): none.



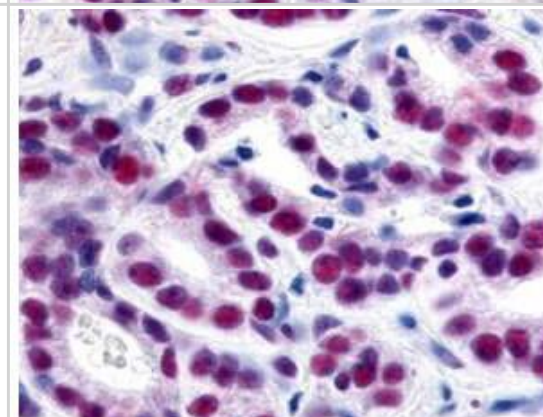
Immunocytochemistry/Immunofluorescence: HDAC1 Antibody [NBP1-78101] - Rabbit IgG 611-151-122 (shown in red) for to detect HDAC-1 by immunofluorescence. Anti Keratin monoclonal antibody was used with Dylight 488 goat anti mouse (shown in green) to detect Keratin



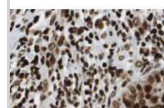
Immunohistochemistry: HDAC1 Antibody [NBP1-78101] - Immunohistochemistry of HDAC1 antibody. Tissue: human prostate cancer tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HDAC1 antibody at 1:500 for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HDAC1 is nuclear. Staining: HDAC1 precipitated purple with blue counterstain.



Immunohistochemistry of Rabbit HDAC1 Antibody. Tissue: human prostate cancer tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HDAC-1 antibody at 1:500 for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HDAC-1 is nuclear. Staining: HDAC-1 precipitated purple with blue counterstain. Personal Communication, Alan Yen, LifeSpanBiosciences, Seattle, WA.



Immunohistochemistry of Rabbit HDAC1 Antibody. Tissue: human lung tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HDAC-1 antibody at 10 ug/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HDAC-1 is nuclear. Staining: HDAC-1 as brown color indicates presence of protein, blue color shows cell nuclei.



## Publications

Sirchia SM, Favarsani A, Rovina D et al. Epigenetic effects of chromatin remodeling agents on organotypic cultures Epigenomics 2016-03-01 [PMID: 26949823] (IHC-P, Human)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-78101**

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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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