

# Product Datasheet

## Histone Deacetylase 4/HDAC4 Antibody - BSA Free NB100-56341

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-56341****Histone Deacetylase 4/HDAC4 Antibody - BSA Free**

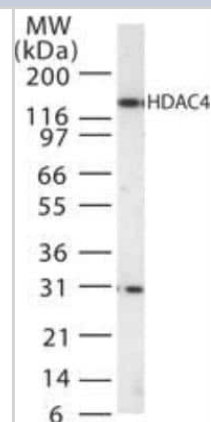
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS

<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	9759
<b>Gene Symbol</b>	HDAC4
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 29380950)..
<b>Immunogen</b>	This antibody was generated by immunizing rabbits with a synthetic peptide corresponding to amino acids 194-209 of human HDAC4.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 0.5-2 ug/ml, Chromatin Immunoprecipitation 1:20-1:1000. Use reported in scientific literature (Caretti et al (2003); Imbriano (2005)), Immunoprecipitation assay dependent, Chromatin Immunoprecipitation (ChIP) 1:20-1:1000
<b>Application Notes</b>	A 140 kDa band is observed.

**Images**

Western Blot: Histone Deacetylase 4/HDAC4 Antibody [NB100-56341] - Analysis of HDAC-4 in Jurkat cell lysate with this antibody.



## Publications

Karppinen S, Hanninen SL, Rapila R, Tavi P. Sarcoplasmic reticulum Ca<sup>2+</sup> -induced Ca<sup>2+</sup> release regulates class IIa HDAC localization in mouse embryonic cardiomyocytes *Physiol Rep* 2018-01-01 [PMID: 29380950] (Mouse)

Wilson AJ, Byun DS, Nasser S et al. HDAC4 promotes growth of colon cancer cells via repression of p21. *Mol Biol Cell*. 2008-10-01 [PMID: 18632985] (WB)

### Details:

Human HTC116 cells: 1. HDAC1 (IMG-337): WB: Figs. 2A,B; 5D. 2. HDAC4 (IMG-338): WB: Figs. 1A, E, F, 4C, 5D, 6A, 7B; ChIP: Figs. 10A,C,D,H.

Caretti G, Salsi V, Vecchi C et al. Dynamic recruitment of NF-Y and histone acetyltransferases on cell-cycle promoters. *J Biol Chem*. 2003-08-15 [PMID: 12771133] (Chemotaxis)

### Details:

ChIP, Fig. 3

Imbriano C, Gurtner A, Cocchiarella F et al. Direct p53 transcriptional repression: in vivo analysis of CCAAT-containing G2/M promoters. *Mol Cell Biol*. 2005-05-01 [PMID: 15831478]





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### **Products Related to NB100-56341**

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NB800-PC2	Jurkat Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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