

# Product Datasheet

## PHF8 Antibody NB100-93314

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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### Publications: 2

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**NB100-93314**

## PHF8 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

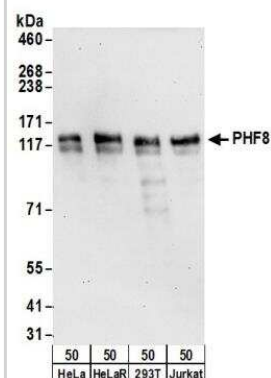
Product Description	
Description	Novus Biologicals Rabbit PHF8 Antibody (NB100-93314) is a polyclonal antibody validated for use in WB and IP. Anti-PHF8 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23133
Gene Symbol	PHF8
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residue 925 and 975 of human PHD finger protein 8 using the numbering given in entry CAI41576.1 (GeneID 23133).

Product Application Details	
Applications	Western Blot, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunoprecipitation, Knockdown Validated
Application Notes	Use in immunoprecipitation reported in scientific literature (PMID: 27991916). Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.

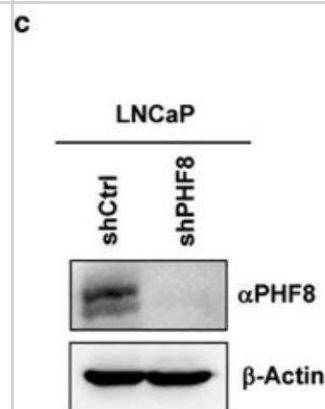


## Images

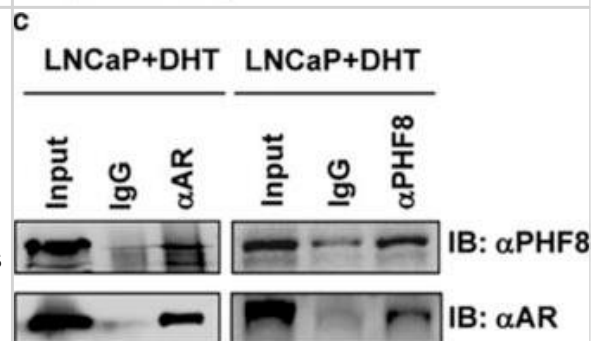
Western Blot: PHF8 Antibody [NB100-93314] - Detection of Human PHF8 by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa, HeLa (RIPA), 293T, and Jurkat cells. Antibodies: Affinity purified rabbit anti-PHF8 antibody NB100-93314 used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Western Blot: PHF8 Antibody [NB100-93314] - Western blot analysis showing knockdown of PHF8 by shRNA against PHF8. LNCaP cells were infected with a lentiviral shPHF8 and western blot analysis was carried out with anti-PHF8 antibody. Image collected and cropped by CiteAb from the following publication ([nature.com/articles/oncsis201674](https://www.nature.com/articles/oncsis201674)), licensed under a CC-BY license.



Western Blot: PHF8 Antibody [NB100-93314] - PHF8 interacts with the AR & functions as an AR coactivator. (a) PHF8 interacts with AR independent of DHT. HEK293T cells were transiently transfected with plasmids expressing Flag-tagged PHF8 & GFP-tagged AR. Cells were treated with or without 10 nM DHT for 48 h & the cell lysates were used for immunoprecipitation with antibodies against either Flag or GFP. Western blotting was conducted with antibodies as indicated. (b) PHF8 interacts with AR independent of its demethylase activity. HEK293T cells were transiently transfected with plasmids expressing Flag-tagged PHF8 (H247A) mutant & GFP-tagged AR. The interaction assay by co-immunoprecipitation was performed as described above. (c) In LNCaP cells endogenous PHF8 interacts with AR. LNCaP cells were treated with 10 nM DHT for 48 h & the cell lysates were used for immunoprecipitation with antibodies against either PHF8 or AR. Western blotting was conducted with AR or PHF8 antibody as indicated. (d) PHF8 enhances AR transcriptional activation in a demethylase activity-dependent manner. HeLa cells were co-transfected with the 4 × UAS-TK-luc reporter, the plasmids expressing the fusion protein Gal-AR, & increased amount of either the wild-type PHF8 or mutant PHF8 (H247A) as indicated. Cells were cultured with or without 10 nM R1881 overnight. The relative luciferase activities in the cell lysates were normalized to renilla luciferase activity. The relative luciferase activities are presented as mean±s.e.m. of three independent transfections & the levels of PHF8 were estimated by western blot as depicted in the bottom panel. Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/oncsis201674>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

- Tong D, Liu Q, Liu G et al. The HIF/PHF8/AR axis promotes prostate cancer progression. *Oncogenesis*. 2016-12-19 [PMID: 27991916] (IP, Human)
- Zhu Z, Wang Y, Li X et al. PHF8 is a histone H3K9me2 demethylase regulating rRNA synthesis. *Cell Res* 2010-07-01 [PMID: 20531378]





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### **Products Related to NB100-93314**

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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
NBP2-56147PEP	PHF8 Recombinant Protein Antigen

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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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