

# Product Datasheet

## Von Hippel Lindau Antibody

### NB100-485

Unit Size: 0.1 ml

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

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**NB100-485**

Von Hippel Lindau Antibody

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	24 kDa
Product Description	
Host	Rabbit
Gene ID	7428
Gene Symbol	VHL
Species	Human
Reactivity Notes	Human.
Immunogen	A synthetic peptide common to both human and mouse Von Hippel Lindau protein.
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500 - 1:1000, Immunohistochemistry, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP)
Application Notes	This Von Hippel Lindau antibody is useful for Immunoprecipitation (PMID 21658608) and Western blot. In Western blot a band is observed ~21 kDa. The theoretical molecular weight of VHL is 24 kDa. However, different migrating species ranging from 21-30 kDa have been observed using antibodies to VHL, and may result from a variety of factors including alternatively spliced VHL mRNAs and protein degradation. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. Use in chromatin immunoprecipitation reported in scientific literature (PMID: 28643803). Use in Immunohistochemistry-paraffin reported in scientific literature (PMID:31928714).



## Publications

Aggarwal R, Zou Y, Luchtel R et al. Functional succinate dehydrogenase deficiency is a pathognomonic adverse feature of clear cell renal cancer Proc Natl Acad Sci U S A 2021-09-23 [PMID: 34551979]

Kaiho-Soma A, Akizuki Y, Igarashi K et al. TRIP12 promotes small-molecule-induced degradation through K29/K48-branched ubiquitin chains Molecular cell 2021-02-03 [PMID: 33567268]

Wang F, Wang LS, Gao YH, Yao XD VHL enhances 9-cis-retinoic acid treatment by down-regulating retinoid X receptor alpha in renal cell carcinomas Biochem. Biophys. Res. Commun. 2020-01-09 [PMID: 31928714] (WB, IHC-P, Human)

Gao YH, Wu ZX, Xie LQ et al. VHL deficiency augments anthracycline sensitivity of clear cell renal cell carcinomas by down-regulating ALDH2 Nat Commun. 2017-06-14 [PMID: 28643803] (WB, Chemotaxis, Human)

Alahari S. The Dynamic Role of Jumonji C Domain Containing Protein 6 in Placental Development and Disease Thesis 2017-01-01 (Human)

Fu RJ, He W, Wang XB et al. DNMT1-maintained hypermethylation of Kruppel-like factor 5 involves in the progression of clear cell renal cell carcinoma Cell Death Dis 2017-07-27 [PMID: 28749461] (WB, Human)

### Details:

This Novus VHL antibody was used to measure VHL expression in different ccRCC lines and helped to show that VHL expression down regulates KLF5 expression in ccRCC cell lines that are VHL deficient.

Alahari S, Post M, Caniggia I. Jumonji Domain Containing Protein 6 - A novel oxygen sensor in the human placenta. Endocrinology 2015-06-02 [PMID: 26037477] (Human)

Hubbi ME, Luo W, Baek JH et al. MCM proteins are negative regulators of hypoxia-inducible factor 1 Mol Cell 2011-06-10 [PMID: 21658608] (IP, WB, Human)

Esteban, MA et al. Regulation of E-cadherin expression by VHL hypoxia-inducible factor. Cancer Res 66(7): 3567-3575. 2006-01-01 [PMID: 16585181] (WB, Human)



## Procedures

### Western Blot Protocol for Von Hippel Lindau Antibody (NB100-485)

#### Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 30ug of total protein per lane. We used human kidney lysate.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS for 1 hour.
6. Dilute the rabbit anti-VHL primary antibody (NB 100-485) in blocking buffer and incubate 2 hours at room temperature.
7. Wash the membrane in water for 5 minutes and apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.
9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).
10. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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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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