

**VHL Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6549B**

**Specification**

**VHL Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P, FC,E</b>
Primary Accession	<a href="#">P40337</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Calculated MW	<b>24153</b>
Antigen Region	<b>181-210</b>

**VHL Antibody (C-term) - Additional Information**

**Gene ID 7428**

**Other Names**

Von Hippel-Lindau disease tumor suppressor, Protein G7, pVHL, VHL

**Target/Specificity**

This VHL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 181-210 amino acids from the C-terminal region of human VHL.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

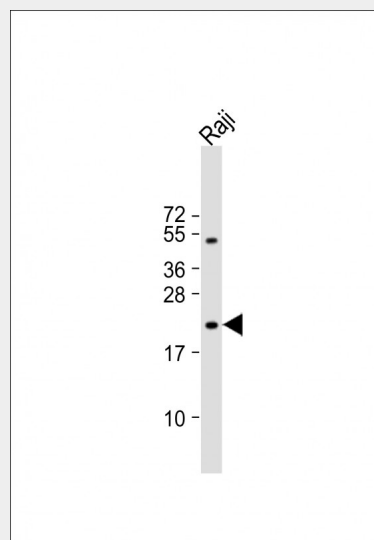
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

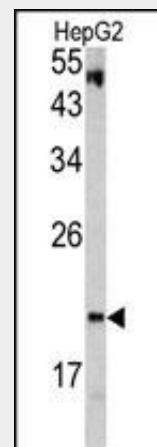
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

VHL Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.



Anti-VHL Antibody (C-term) at 1:1000 dilution + Raji whole cell lysate  
Lysates/proteins at 20 µg per lane.  
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.  
Predicted band size : 24 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of VHL antibody (C-term) (Cat. #AP6549b) in HepG2 cell line lysates (35ug/lane). VHL (arrow) was detected using the purified Pab.

## VHL Antibody (C-term) - Protein Information

### Name VHL

### Function

Involved in the ubiquitination and subsequent proteasomal degradation via the von Hippel-Lindau ubiquitination complex. Seems to act as a target recruitment subunit in the E3 ubiquitin ligase complex and recruits hydroxylated hypoxia-inducible factor (HIF) under normoxic conditions. Involved in transcriptional repression through interaction with HIF1A, HIF1AN and histone deacetylases. Ubiquitinates, in an oxygen-responsive manner, ADRB2.

### Cellular Location

[Isoform 1]: Cytoplasm. Membrane; Peripheral membrane protein. Nucleus. Note=Found predominantly in the cytoplasm and with less amounts nuclear or membrane-associated. Colocalizes with ADRB2 at the cell membrane

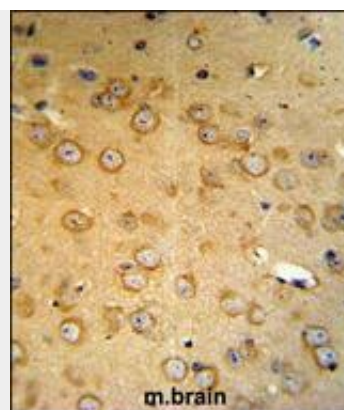
### Tissue Location

Expressed in the adult and fetal brain and kidney.

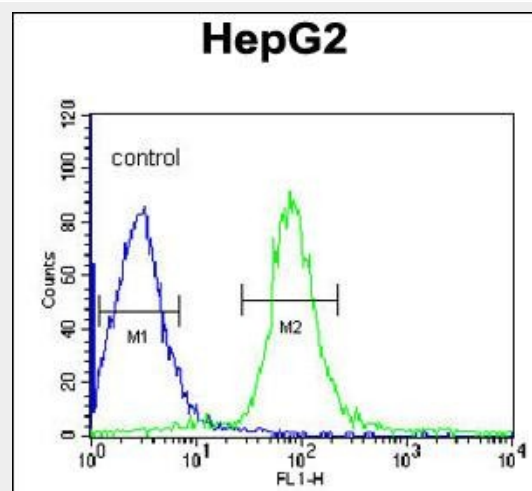
## VHL Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



VHL Antibody (C-term) (RB18668) IHC analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the VHL Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



VHL Antibody (C-term) (Cat. #AP6549b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## VHL Antibody (C-term) - Background

Von Hippel-Lindau syndrome (VHL) is a dominantly inherited familial cancer syndrome predisposing to a variety of malignant and benign tumors. A germline mutation of VHL gene is the basis of familial inheritance of VHL syndrome. The protein is a component of the protein complex that includes elongin B, elongin C, and cullin-2, and possesses ubiquitin

ligase E3 activity. This protein is involved in the ubiquitination and degradation of hypoxia-inducible-factor (HIF), which is a transcription factor that plays a central role in the regulation of gene expression by oxygen. RNA polymerase II subunit POLR2G/RPB7 is also reported to be a target of this protein.

#### **VHL Antibody (C-term) - References**

Olmos,G., Cell. Mol. Life Sci. 66 (13), 2167-2180 (2009) Hatzimichael,E., Clin Lymphoma Myeloma 9 (3), 239-242 (2009) Luu,V.D., Clin. Cancer Res. 15 (10), 3297-3304 (2009)

#### **VHL Antibody (C-term) - Citations**

- [Salidroside accelerates fracture healing through cell-autonomous and non-autonomous effects on osteoblasts.](#)
- [Protective effect of salidroside against bone loss via hypoxia-inducible factor-1 \$\alpha\$  pathway-induced angiogenesis.](#)