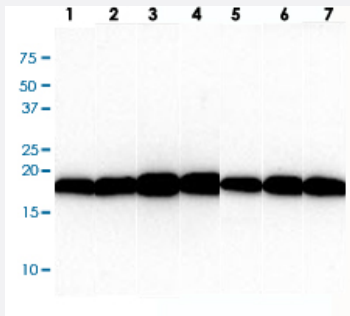


VHL monoclonal antibody, clone AT82B10

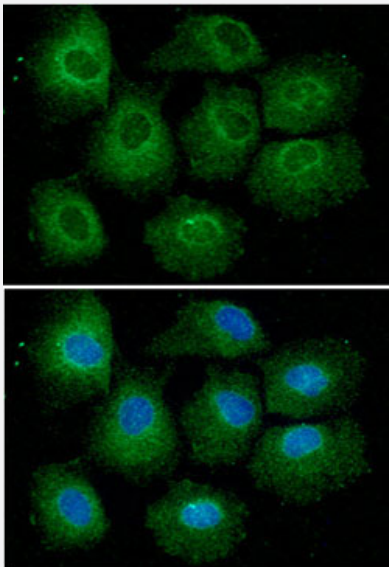
Catalog # MAB1074 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of (1) HepG2, (2) HeLa, (3) Raji, (4) Jurkat, (5) A549, (6) MCF7, (7) PC3 cell lysate.



Immunofluorescence

Immunofluorescent staining of Hep3B cell line with antibody. The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant VHL.
Immunogen	Recombinant protein corresponding to amino acids 1-154 of human VHL.
Host	Mouse
Reactivity	Human

Form	Liquid
Purification	Protein A purification
Isotype	IgG2b, kappa
Recommend Usage	ELISA Immunocytochemistry (1:100) Immunofluorescence (1:100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of (1) HepG2, (2) HeLa, (3) Raji, (4) Jurkat, (5) A549, (6) MCF7, (7) PC3 cell lysate.

- Immunocytochemistry

- Immunofluorescence

Immunofluorescent staining of Hep3B cell line with antibody. The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — VHL

Entrez GeneID	7428
GeneBank Accession#	NM_000551
Protein Accession#	NP_000542
Gene Name	VHL
Gene Alias	HRCA1, RCA1, VHL1

Gene Description	von Hippel-Lindau tumor suppressor
Omim ID	144700 171300 193300 263400 608537
Gene Ontology	Hyperlink
Gene Summary	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 this gene is the basis of familial inheritance of VHL syndrome. The protein encoded by this gene 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. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]
Other Designations	elongin binding protein

Publication Reference

- [Chemokine receptor CXCR4 downregulated by von Hippel-Lindau tumour suppressor pVHL.](#)

Staller P, Sulitkova J, Lisztwan J, Moch H, Oakeley EJ, Krek W.

Nature 2003 Sep; 425(6955):307.

Application: WB, Human, A498 cells

- [The tumour suppressor protein VHL targets hypoxia-inducible factors for oxygen-dependent proteolysis.](#)

Maxwell PH, Wiesener MS, Chang GW, Clifford SC, Vaux EC, Cockman ME, Wykoff CC, Pugh CW, Maher ER, Ratcliffe PJ.

Nature 1999 May; 399(6733):271.

Application: IP, WB-Ce, WB-Tr, Human, HeLa, RCC4 cells

- [Structure of the VHL-ElonginC-ElonginB complex: implications for VHL tumor suppressor function.](#)

Stebbins CE, Kaelin WG Jr, Pavletich NP.

Science 1999 Apr; 284(5413):455.

Pathway

- [Pathways in cancer](#)
- [Renal cell carcinoma](#)
- [Ubiquitin mediated proteolysis](#)

Disease

- [Adenocarcinoma](#)
- [Adrenal Gland Neoplasms](#)
- [Altitude Sickness](#)
- [Anoxia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Central Nervous System Neoplasms](#)
- [Cerebellar Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glomus Tumor](#)
- [Head and Neck Neoplasms](#)
- [Hemangioblastoma](#)
- [Hemangioma](#)
- [Hippel-Lindau Disease](#)
- [Hypertension](#)
- [Kidney Neoplasms](#)
- [Lymphoproliferative Disorders](#)
- [Multiple endocrine neoplasia](#)
- [Multiple Endocrine Neoplasia Type 2a](#)

- [Myelodysplastic Syndromes](#)
- [Neoplasms](#)
- [Neurofibromatosis](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Paranglioma](#)
- [Pheochromocytoma](#)
- [Polycythemia](#)
- [Retinal Neoplasms](#)
- [Syndrome](#)
- [Thrombosis](#)
- [Vascular Diseases](#)
- [von Hippel-Lindau Disease](#)
- [Von Hippel-Lindau syndrome](#)