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Anti-Von Hippel Lindau Antibody

Catalog # AP51677

Product Information

Application	WB
Primary Accession	P40337
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24153

Additional Information

Gene ID	7428
Other Names	Von Hippel-Lindau disease tumor suppressor; Protein G7; pVHL
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Von Hippel Lindau. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	VHL
Function	Involved in the ubiquitination and subsequent proteasomal degradation via the von Hippel-Lindau ubiquitination complex (PubMed:10944113, PubMed:17981124, PubMed:19584355). Seems to act as a target recruitment subunit in the E3 ubiquitin ligase complex and recruits hydroxylated hypoxia-inducible factor (HIF) under normoxic conditions (PubMed:10944113, PubMed:17981124). Involved in transcriptional repression through interaction with HIF1A, HIF1AN and histone deacetylases (PubMed:10944113, PubMed:17981124). Ubiquitinates, in an oxygen-responsive manner, ADRB2 (PubMed:19584355). Acts as a negative regulator of mTORC1 by promoting ubiquitination and degradation of RPTOR (PubMed:34290272).
Cellular Location	[Isoform 1]: Cytoplasm. Cell membrane; Peripheral membrane protein. Endoplasmic reticulum. Nucleus. Note=Found predominantly in the cytoplasm and with less amounts nuclear or membrane-associated (PubMed:9751722) Colocalizes with ADRB2 at the cell membrane

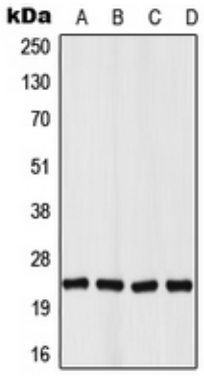
(PubMed:19584355)

Tissue Location Expressed in the adult and fetal brain and kidney.

References

Latif F.,et al.Science 260:1317-1320(1993).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Muzny D.M.,et al.Nature 440:1194-1198(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Wenzel M.,et al.Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of Von Hippel Lindau expression in HepG2 (A), HEK293T (B), A549 (C), rat brain (D) whole cell lysates. (Predicted band size: 24 kD; Observed band size: 23 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.