

VHL, Biotinylated

Peptide-affinity purified goat antibody Catalog # AF2146b

Specification

VHL, Biotinylated - Product Information

Application WB, Pep-ELISA

Primary Accession P40337

Other Accession NP_937799, 7428, 22346 (mouse), 24874 (rat)

Reactivity Human, Mouse, Rat

Predicted Dog
Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG
Calculated MW 24153

VHL, Biotinylated - Additional Information

Gene ID 7428

Other Names

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

Dilution

WB~~1:1000 Pep-ELISA~~N/A

Format

0.5~mg~lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

VHL, Biotinylated is for research use only and not for use in diagnostic or therapeutic procedures.

VHL, Biotinylated - Protein Information

Name VHL

Function

Involved in the ubiquitination and subsequent proteasomal degradation via the von Hippel-Lindau ubiquitination complex (PubMed:10944113, PubMed:<a href="http://www.uniprot.org/citations/17981124"



target="_blank">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" target="_blank">10944113, PubMed:17981124" target="_blank">10944113, PubMed:10944113 (PubMed:10944113 (Pub

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.

VHL, Biotinylated - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VHL, Biotinylated - Images





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Biotinylated EB07333 (0.3µg/ml) staining of Human Ovary lysate (35µg protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP block

VHL, Biotinylated - 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 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.

VHL, Biotinylated - References

Biomarkers Predicting Outcome in Patients with Advanced Renal Cell Carcinoma: Results from Sorafenib Phase III Treatment Approaches in Renal Cancer Global Evaluation Trial. Pe∏a C, et al. Clin Cancer Res, 2010 Sep 14. PMID 20651059. Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study, Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000. Clinical and molecular features of familial and sporadic cases of von Hippel-Lindau disease from Mexico. Chacon-Camacho OF, et al. Clin Experiment Ophthalmol, 2010 Apr. PMID 20447124. VHL-gene deletion in single renal tubular epithelial cells and renal tubular cysts: further evidence for a cyst-dependent progression pathway of clear cell renal carcinoma in von Hippel-Lindau disease. Montani M, et al. Am J Surg Pathol, 2010 Jun. PMID 20431476.