



VHL Monoclonal Antibody

Catalog No	YP-mAb-00548
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;ELISA
Gene Name	VHL
Protein Name	Von Hippel-Lindau disease tumor suppressor
Immunogen	The antiserum was produced against synthesized peptide derived from human VHL. AA range:34-83
Specificity	VHL Monoclonal Antibody detects endogenous levels of VHL protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	VHL; Von Hippel-Lindau disease tumor suppressor; Protein G7; pVHL
Observed Band	19-24kD
Cell Pathway	[Isoform 1]: Cytoplasm. Membrane; Peripheral membrane protein. Nucleus. Found predominantly in the cytoplasm and with less amounts nuclear or membrane-associated. Colocalizes with ADRB2 at the cell membrane.; [Isoform 3]: Cytoplasm. Nucleus. Equally distributed between the nucleus and the cytoplasm but not membrane-associated.
Tissue Specificity	Expressed in the adult and fetal brain and kidney.
Function	disease:Defects in VHL are a cause of pheochromocytoma [MIM:171300]. The pheochromocytomas are catecholamine-producing, chromaffin tumors that arise in the adrenal medulla in 90% of cases. In the remaining 10% of cases, they develop in extra-adrenal sympathetic ganglia and may be referred to as "paraganglioma." Pheochromocytoma usually presents with hypertension. Approximately 10% of pheochromocytoma is hereditary. The genetic basis for most cases of non-syndromic familial pheochromocytoma is unknown.,disease:Defects in VHL are a cause of renal cell carcinoma type 1 (RCC1) [MIM:144700]; also called hypernephroma or adenocarcinoma of kidney. Familial renal cell carcinoma syndromes form a group of diseases characterized by a predisposition to development of renal cell carcinomas (RCCs) with various histological subtypes.,disease:Defects in VHL are the cause of erythrocytosis



familial type

Background

von Hippel-Lindau tumor suppressor(VHL) Homo sapiens 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, Jul 2008],

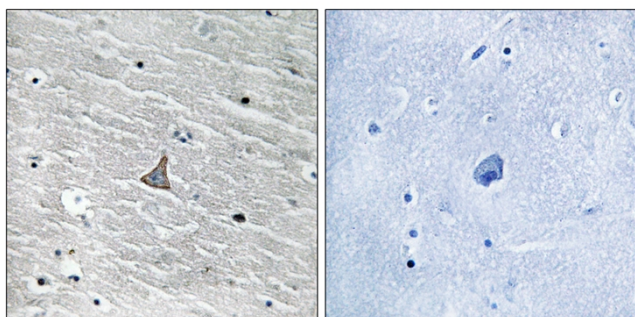
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using VHL Antibody. The picture on the right is blocked with the synthesized peptide.