

For Research Use Only

VHL Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 87374-3-PBS



Basic Information

Catalog Number: 87374-3-PBS	GenBank Accession Number: NM_000551.4	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7428	CloneNo.: 251968A5
Source: Rabbit	UNIPROT ID: P40337	
Isotype: IgG	Full Name: von Hippel-Lindau tumor suppressor	
Immunogen Catalog Number: EG6405	Calculated MW: 24 kDa	
	Observed MW: 18-24 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

87374-3-PBS targets VHL as part of a matched antibody pair:

MP02982-1: 87374-3-PBS capture and 87374-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

VHL (von Hippel-Lindau tumor suppressor) gene was identified as the tumor suppressor gene whose germ line mutations are associated with the inherited von Hippel-Lindau cancer syndrome (PMID: 8603073, 10722748). VHL patients develop a wide variety of tumors including retinal angioma, central nervous system hemangioblastoma, pheochromocytoma, and renal clear cell carcinoma (PMID: 10722748). VHL localizes predominantly to the cytoplasmic compartment but engages in a dynamic nuclear-cytoplasmic shuttle (PMID: 8700833, 9891082, 12101228). VHL has isoforms with the molecular mass of 18-24 kDa.

Storage

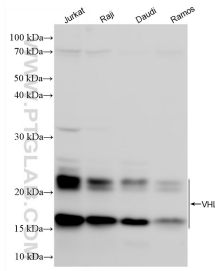
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

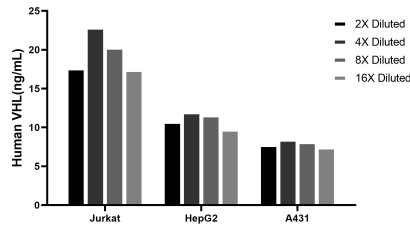
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

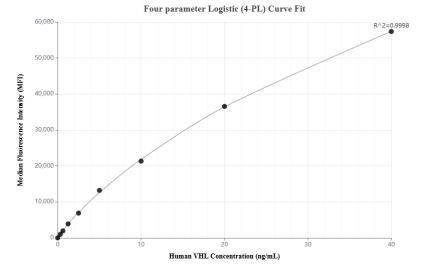
Selected Validation Data



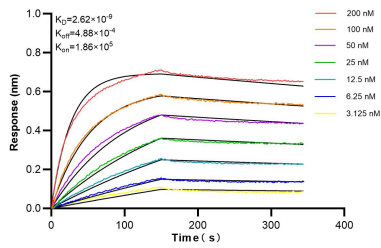
Various lysates were subjected to SDS PAGE followed by western blot with 87374-3-RR (VHL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87374-3-PBS in a different storage buffer formulation.



The mean VHL concentration was determined to be 19.5 ng/mL in Jurkat cell extract based on a 1.2 mg/mL extract load, 11.0 ng/mL in HepG2 cell extract based on a 1.2 mg/mL extract load, 7.9 ng/mL in A431 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP02982-1, VHL Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87374-3-PBS. Detection antibody: 87374-2-PBS. Standard: Eg6405. Range: 0.312-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 87374-3-RR against Human VHL were performed. The affinity constant is 2.62 nM.