

For Research Use Only

VPS34 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 87952-1-PBS



Basic Information

Catalog Number: 87952-1-PBS	GenBank Accession Number: BC033004	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5289	CloneNo.: 260118B4
Source: Rabbit	UNIPROT ID: Q8NEB9	
Isotype: IgG	Full Name: phosphoinositide-3-kinase, class 3	
Immunogen Catalog Number: AG3110	Calculated MW: 887 aa, 100 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications:
WB, IHC, IP, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

87952-1-PBS targets VPS34 as part of a matched antibody pair:

MP03292-1: 87952-1-PBS capture and 87952-2-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

PIK3C3(Phosphatidylinositol 3-kinase catalytic subunit type 3) is also named as VPS34 and belongs to the PI3/PI4-kinase family. It is a catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate which plays a key role in initiation and maturation of autophagosomes. It can form a dimer(PMID:20339072).

Storage

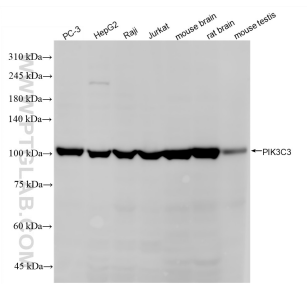
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

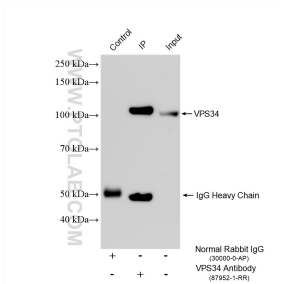
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

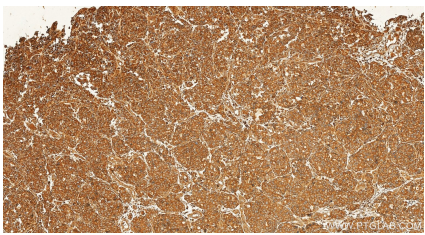
Selected Validation Data



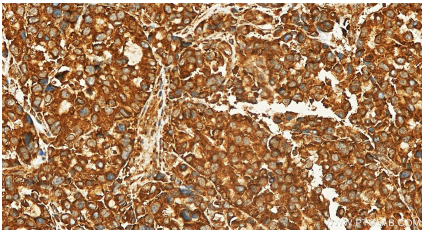
Various lysates were subjected to SDS PAGE followed by western blot with 87952-1-RR (PIK3C3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87952-1-PBS in a different storage buffer formulation.



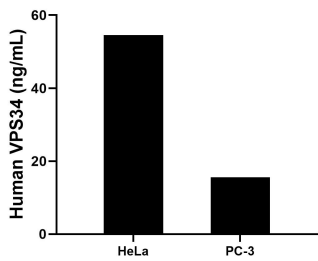
IP result of anti-VPS34 (IP:87952-1-RR, 4ug; Detection:87952-1-RR 1:800) with PC-3 cells lysate 960 ug. This data was developed using the same antibody clone with 87952-1-PBS in a different storage buffer formulation.



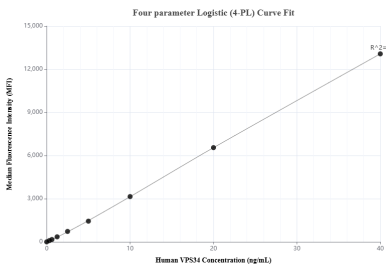
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 87952-1-RR (VPS34 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87952-1-PBS in a different storage buffer formulation.



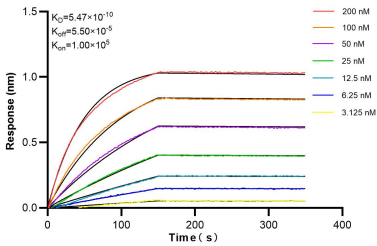
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 87952-1-RR (VPS34 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87952-1-PBS in a different storage buffer formulation.



The mean VPS34 concentration was determined to be 54.5 ng/mL in Hela cell extract based on a 1.2 mg/mL extract load, 15.6 ng/mL in PC-3 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP03292-1, VPS34 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87952-1-PBS. Detection antibody: 87952-2-PBS. Standard: Ag3110. Range: 0.312-40 ng/mL.



Bioluminescence resonance energy transfer (BLI) kinetic assays of 87952-1-RR against Human VPS34 were performed. The affinity constant is 0.547 nM.