

For Research Use Only

# VPS54 Monoclonal antibody, PBS Only (Detector)

Catalog Number: 67404-1-PBS



## Basic Information

<b>Catalog Number:</b> 67404-1-PBS	<b>GenBank Accession Number:</b> BC030275	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 51542	<b>CloneNo.:</b> 3D12D1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9P1Q0	
<b>Isotype:</b> IgG1	<b>Full Name:</b> vacuolar protein sorting 54 homolog (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG4123	<b>Calculated MW:</b> 977 aa, 111 kDa	
	<b>Observed MW:</b> 100-110 kDa	

## Applications

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

**Species Specificity:**  
human, mouse, rat, pig

## Product Information

67404-1-PBS targets VPS54 as part of a matched antibody pair:

MP51221-2: 67404-2-PBS capture and 67404-1-PBS detection (validated in Cytometric bead array)

MP51221-3: 67404-3-PBS capture and 67404-1-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

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

VPS54 is a part of the Golgi-associated retrograde protein (GARP) complex protein required for tethering and fusion of endosome-derived transport vesicles to the trans-Golgi network. It may participate in retrograde transport from early and late endosomes to the late Golgi. The GARP complex is required for the maintenance of the cycling of mannose 6-phosphate receptors between the TGN and endosomes, this cycling is necessary for proper lysosomal sorting of acid hydrolases such as CTSD.

## Storage

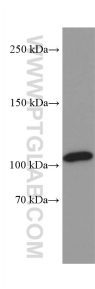
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

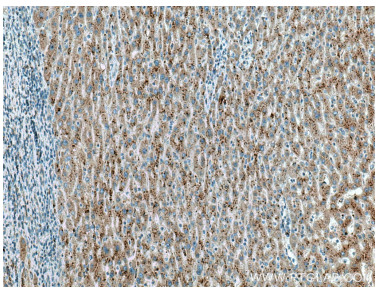
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

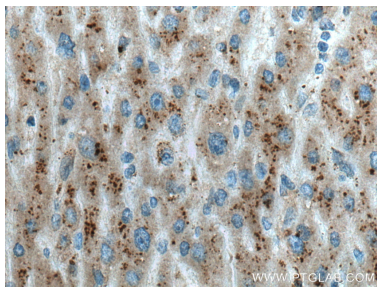
Selected Validation Data



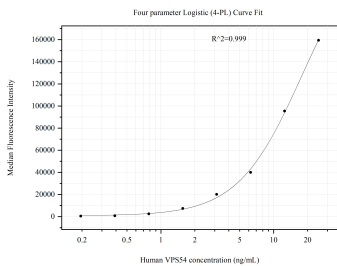
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 67404-1-Ig (VPS54 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67404-1-PBS in a different storage buffer formulation.



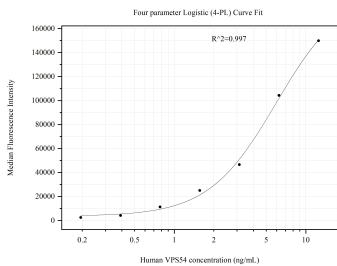
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67404-1-Ig (VPS54 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67404-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67404-1-Ig (VPS54 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67404-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP51221-2, VPS54 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67404-2-PBS. Detection antibody: 67404-1-PBS. Standard:Ag4123. Range: 0.195-25 ng/mL



Cytometric bead array standard curve of MP51221-3, VPS54 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67404-3-PBS. Detection antibody: 67404-1-PBS. Standard:Ag4123. Range: 0.195-12.5 ng/mL