

# VPS53 Monoclonal antibody

Catalog Number: 67610-1-Ig

## Basic Information

<b>Catalog Number:</b> 67610-1-Ig	<b>GenBank Accession Number:</b> BC029560	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 55275	<b>CloneNo.:</b> 2B12C3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q5VIR6	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:300-1:1200 IF/ICC 1:150-1:600
<b>Isotype:</b> IgG1	<b>Full Name:</b> vacuolar protein sorting 53 homolog (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG29875	<b>Calculated MW:</b> 832 aa, 94 kDa	
	<b>Observed MW:</b> 94 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IHC, WB, ELISA

**Species Specificity:**  
Human, Mouse, Rat

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

**WB :** U2OS cells, HeLa cells, NIH/3T3 cells, HEK-293  
cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6  
cells, LNCaP cells, 4T1 cells

**IHC :** human liver tissue, rat brain tissue

**IF/ICC :** HEK-293 cells,

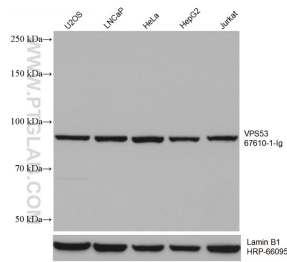
## Background Information

VPS53 is a component of the Golgi-associated retrograde protein (GARP) complex, also called VFT (VPS fifty-three) complex, composed of VPS51, VPS52, VPS53 and VPS54. GARP complex functions in traffic from endosomes to the trans-Golgi network (PMID: 15878329). GARP proteins interact with RAB proteins and SNARE proteins.

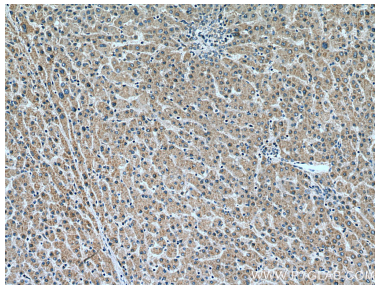
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

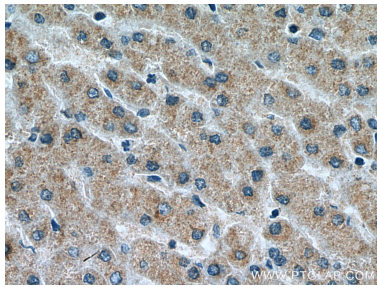
## Selected Validation Data



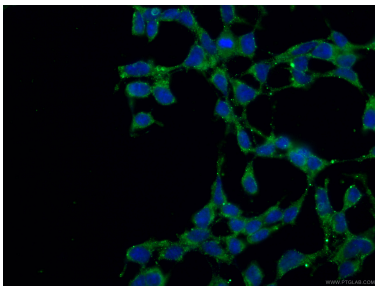
Various lysates were subjected to SDS PAGE followed by western blot with 67610-1-Ig (VP53 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67610-1-Ig (VP53 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67610-1-Ig (VP53 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 67610-1-Ig (VP53 antibody), at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).