

For Research Use Only

# P glycoprotein Monoclonal antibody

Catalog Number: 67258-2-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67258-2-Ig	<b>GenBank Accession Number:</b> BC130424	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5243	<b>CloneNo.:</b> 1G6C2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P08183	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:1000-1:4000 IF/ICC 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Full Name:</b> ATP-binding cassette, sub-family B (MDR/TAP), member 1	
<b>Immunogen Catalog Number:</b> AG17811	<b>Calculated MW:</b> 1280 aa, 142 kDa	
	<b>Observed MW:</b> 130-150 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB: unboiled HeLa cells, unboiled HepG2 cells, SH-SY5Y cells IHC: human kidney tissue, human liver tissue IF/ICC: COLO 320 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

ABCB1 (also known as P-gp/ P-glycoprotein, MDR1/multidrug-resistance 1) is a plasma membrane protein first discovered in multidrug resistant tumor cells. ABCB1 can extrude a large number of medically relevant compounds from cells and causes drug resistance. ABCB1 is expressed in a variety of human cancers as well as normal tissues including brain, and placenta. Overexpression of ABCB1 correlates with a negative prognosis in several types of cancer. For optimal WB detection, we recommend to avoid boiling the sample after lysis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xingdi Fan	39823826	Drug Resist Updat	WB

## Storage

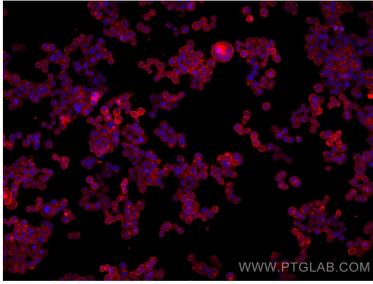
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

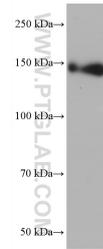
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

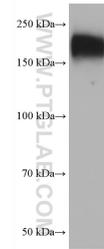
## Selected Validation Data



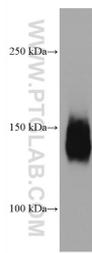
Immunofluorescent analysis of (4% PFA) fixed COLO 320 cells using P glycoprotein antibody (67258-2-Ig, Clone: 1G6C2) at dilution of 1:1000 and Multi-Ab CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



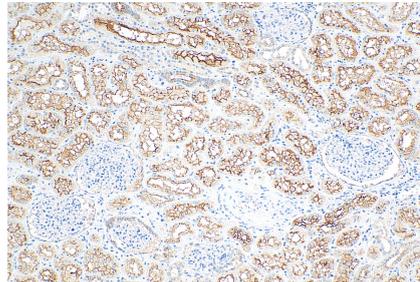
unboiled HeLa cells were subjected to SDS PAGE followed by western blot with 67258-2-Ig (ABCB1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



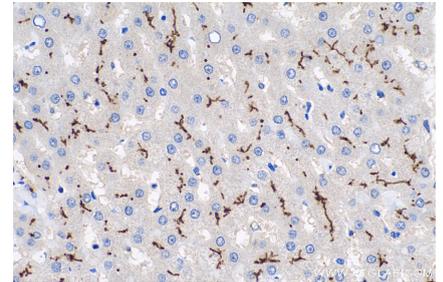
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 67258-2-Ig (ABCB1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



unboiled HepG2 cells were subjected to SDS PAGE followed by western blot with 67258-2-Ig (ABCB1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 67258-2-Ig (ABCB1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67258-2-Ig (ABCB1 antibody) at dilution of 1:16000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).