

For Research Use Only

# PRX5 Monoclonal antibody

Catalog Number: 67599-1-Ig



## Basic Information

<b>Catalog Number:</b> 67599-1-Ig	<b>GenBank Accession Number:</b> BC110983	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 25824	<b>CloneNo.:</b> 1B8C5
<b>Source:</b> Mouse	<b>Full Name:</b> peroxiredoxin 5	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:200-1:1000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 214 aa, 22 kDa	
<b>Immunogen Catalog Number:</b> AG12262	<b>Observed MW:</b> 17 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, rat	<b>WB :</b> LNCaP cells, HeLa cells, HepG2 cells, Jurkat cells, K-562 cells
<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>	<b>IHC :</b> human liver cancer tissue,

## Background Information

Peroxiredoxin 5 (Prx5) is a member of a family consisting of six antioxidant enzymes. Prx5 is ubiquitously expressed in various tissues including mitochondria and peroxisomes, implying that Prx5 functions as a regulator of the cellular oxidation state. Prx5 plays a critical role in protecting cells from oxidative stress by inhibiting the accumulation of reactive oxygen species and cell death. Prx5 has an intensive ROS scavenging activity because it is located in the cytosol and mitochondria. Prx5 expression was upregulated during adipogenesis and Prx5 overexpression suppressed adipogenesis by regulating cytosolic and mitochondrial ROS generation. (PMID: 2977756, PMID: 31505325, PMID: 22020876)

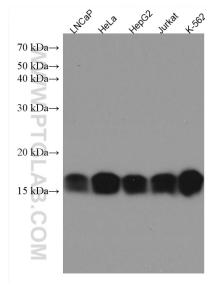
## Storage

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

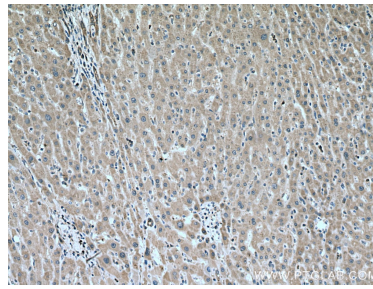
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

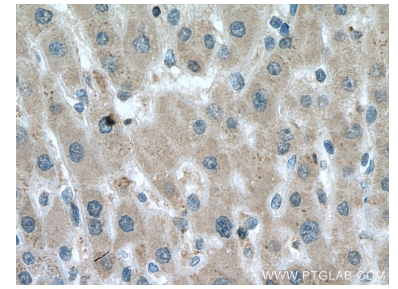
## Selected Validation Data



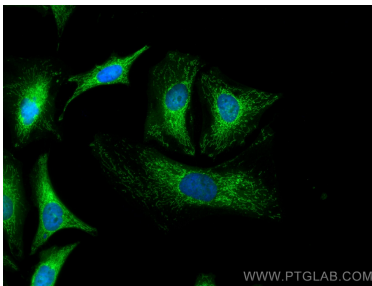
Various lysates were subjected to SDS PAGE followed by western blot with 67599-1-Ig (PRX5 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67599-1-Ig (PRX5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67599-1-Ig (PRX5 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PRX5 antibody (67599-1-Ig, Clone: 1B8C5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).