

For Research Use Only

PRX5 Monoclonal antibody

Catalog Number: 67599-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number: 67599-1-Ig	GenBank Accession Number: BC110983	Purification Method: Protein G purification
Size: 150ul, Concentration: 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 25824	CloneNo.: 1B8C5
Source: Mouse	UNIPROT ID: P30044	Recommended Dilutions: WB 1:2000-1:10400 IHC 1:200-1:1000 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: peroxiredoxin 5	
Immunogen Catalog Number: AG12262	Calculated MW: 214 aa, 22 kDa	
	Observed MW: 17 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HCT 116 cells, LNCaP cells, HepG2 cells, HeLa cells, Jurkat cells, K-562 cells, HEK-293 cells IHC : human liver cancer tissue, IF/ICC : HeLa cells,
Cited Applications: WB, IF, IP	
Species Specificity: Human, rat	
Cited Species: human, rat	

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

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: 29777756, PMID: 31505325, PMID: 22020876)

Notable Publications

Author	Pubmed ID	Journal	Application
Jinshuo Yang	39326715	Brain Res Bull	WB,IF
Rong Wang	39168191	Int J Biol Macromol	WB,IP,IF
Rong Wang	38115765	Adv Sci (Weinh)	WB

Storage

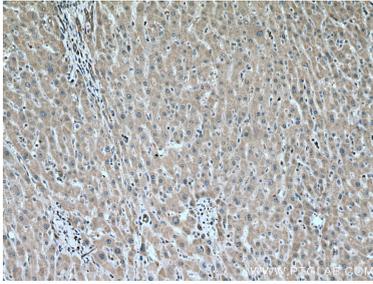
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

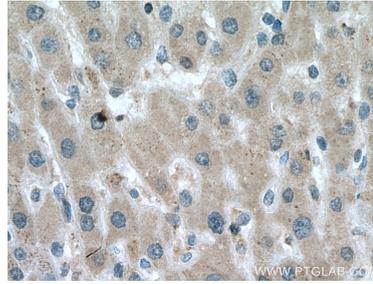
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

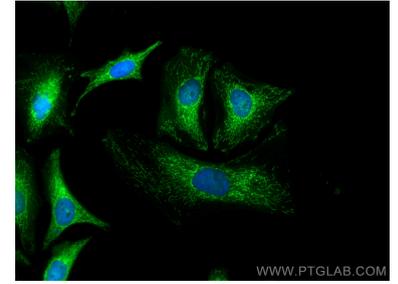
Selected Validation Data



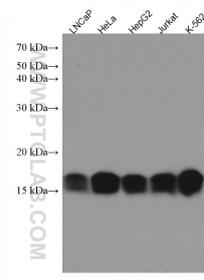
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67599-1-Ig (PRX5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



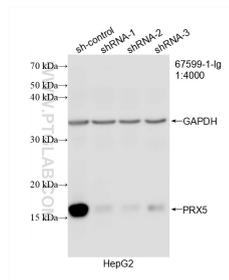
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67599-1-Ig (PRX5 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



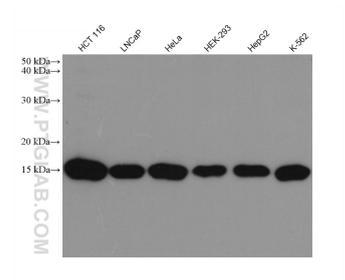
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PRX5 antibody (67599-1-Ig, Clone: 1B8C5) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L).



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.



WB result of PRX5 antibody (67599-1-Ig; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRX5 transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 67599-1-Ig (PRX5 antibody) at dilution of 1:5200 incubated at room temperature for 1.5 hours.