

For Research Use Only

# PRX5 Polyclonal antibody

Catalog Number: 17724-1-AP

Featured Product

14 Publications



## Basic Information

**Catalog Number:**

17724-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG12118

**GenBank Accession Number:**

BC110983

**GeneID (NCBI):**

25824

**UNIPROT ID:**

P30044

**Full Name:**

peroxiredoxin 5

**Calculated MW:**

214 aa, 22 kDa

**Observed MW:**

17 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**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 : Daudi cells, HepG2 cells, U-937 cells, mouse kidney tissue, rat kidney tissue

IHC : human kidney 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: 29777756, PMID: 31505325, PMID: 22020876)

## Notable Publications

Author	Pubmed ID	Journal	Application
Ewud Agborbesong	36067023	Hum Mol Genet	WB,IF
Fadi N Salloum	25361774	Exp Biol Med (Maywood)	WB
Chenhao Xu	33161253	Bioorg Chem	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

For technical support and original validation data for this product please contact:

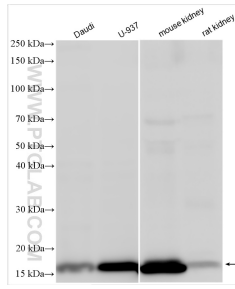
T: 4006900926

E: Proteintech-CN@ptglab.com

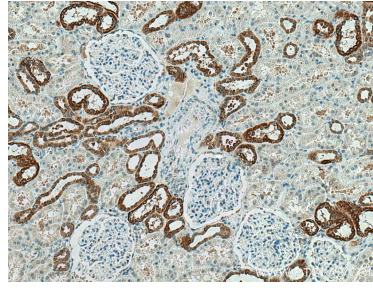
W: ptgcn.com

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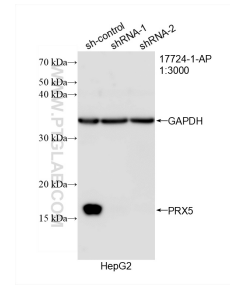
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17724-1-AP (PRX5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17724-1-AP (PRX5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of PRX5 antibody (17724-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRX5 transfected HepG2 cells.