

**GPX3 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11221c**

**Specification**

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**GPX3 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P22352</a>
Other Accession	<a href="#">NP_002075</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	93-123

**GPX3 Antibody (Center) - Additional Information**

**Gene ID** 2878

**Other Names**

Glutathione peroxidase 3, GPx-3, GSHPx-3, Extracellular glutathione peroxidase, Plasma glutathione peroxidase, GPx-P, GSHPx-P, GPX3, GPXP

**Target/Specificity**

This GPX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-123 amino acids from the Central region of human GPX3.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GPX3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPX3 Antibody (Center) - Protein Information**

**Name** GPX3 ([HGNC:4555](#))

**Synonyms** GPXP

**Function** Protects cells and enzymes from oxidative damage, by catalyzing the reduction of hydrogen peroxide, lipid peroxides and organic hydroperoxide, by glutathione.

**Cellular Location**

Secreted.

**Tissue Location**

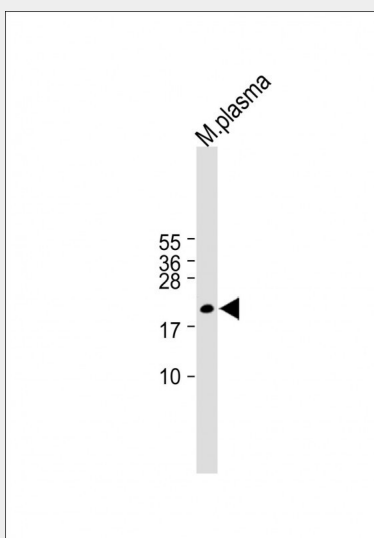
Secreted in plasma.

**GPX3 Antibody (Center) - Protocols**

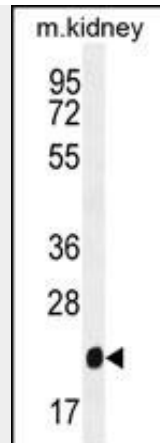
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

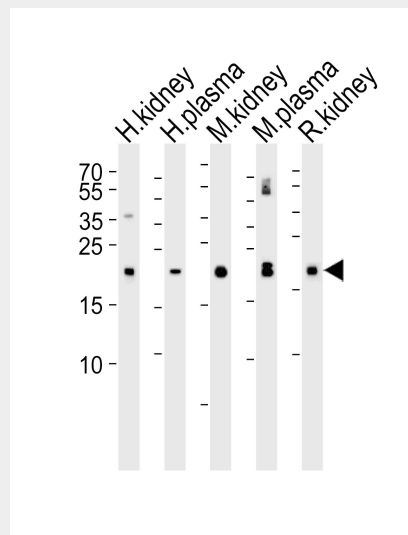
**GPX3 Antibody (Center) - Images**



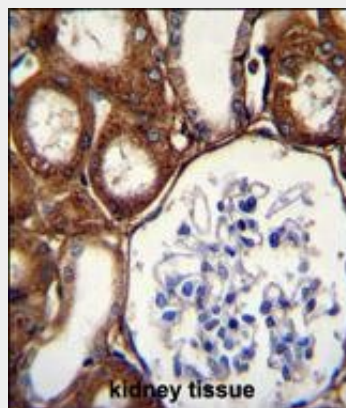
All lanes : Anti-GPX3 Antibody (Center) at 1:1000 dilution Lane 1: M. plasma lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size : 22kDa Blocking/Dilution buffer: 5% NFDM/TBST.



GPX3 Antibody (Center) (Cat. #AP11221c) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the GPX3 antibody detected the GPX3 protein (arrow).



Western blot analysis of lysates from human kidney, plasma, mouse kidney, plasma and rat kidney tissue lysate (from left to right), using GPX3 Antibody (Center) (Cat. #AP11221c). AP11221c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



GPX3 Antibody (Center) (Cat. #AP11221c) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GPX3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

### **GPX3 Antibody (Center) - Background**

This gene product belongs to the glutathione peroxidase family, which functions in the detoxification of hydrogen peroxide. It contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal.

### **GPX3 Antibody (Center) - References**

Wang, J.Y., et al. Clin. Chim. Acta 411 (19-20), 1432-1436 (2010) : Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Fullerton, J.M., et al. Bipolar Disord 12(5):550-556(2010) Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010) Mistry, H.D., et al. Placenta 31(5):401-408(2010)

### **GPX3 Antibody (Center) - Citations**

- [Silencing GPX3 Expression Promotes Tumor Metastasis in Human Thyroid Cancer.](#)