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GPX3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11221c

Specification

GPX3 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P22352
Other Accession	NP_002075
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
E~~Use at an assay dependent concentration.

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.

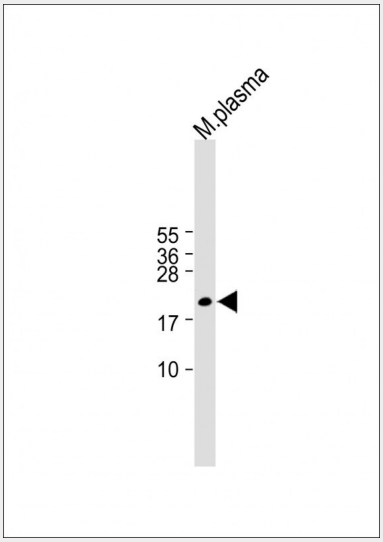
Tissue Location
Secreted in plasma.

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 Cytomety
- 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.

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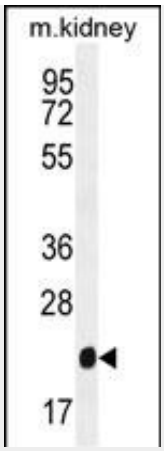
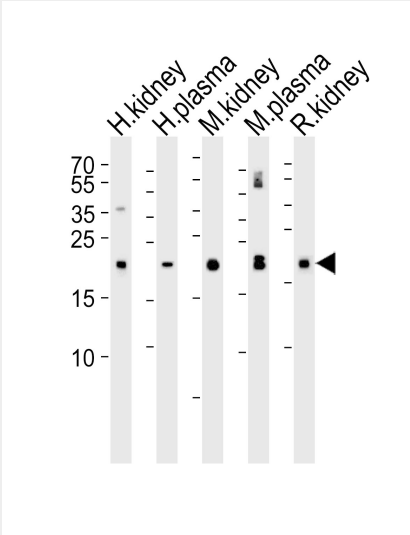
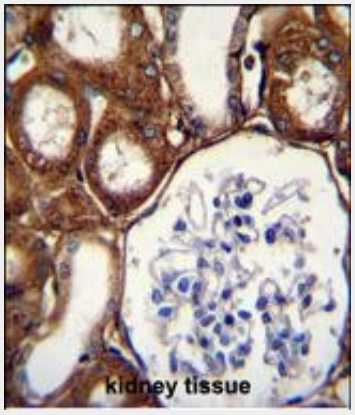


GPX3 Antibody (Center) (Cat. #AP11221c) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the GPX3 antibody detected the GPX3 protein (arrow).



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.

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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.