

**Goat Anti-GPX3 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1500a****Specification**

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**Goat Anti-GPX3 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">P22352</a>
Other Accession	<a href="#">NP_002075</a> , <a href="#">2878</a> , <a href="#">14778 (mouse)</a> , <a href="#">64317 (rat)</a>
Reactivity	Mouse, Pig
Predicted	Human, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	25552

**Goat Anti-GPX3 Antibody - Additional Information****Gene ID** 2878**Other Names**

Glutathione peroxidase 3, GPx-3, GSHPx-3, 1.11.1.9, Extracellular glutathione peroxidase, Plasma glutathione peroxidase, GPx-P, GSHPx-P, GPX3, GPXP

**Dilution**WB~~1:1000  
IHC~~1:100~500  
E~~N/A**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-GPX3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-GPX3 Antibody - 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.

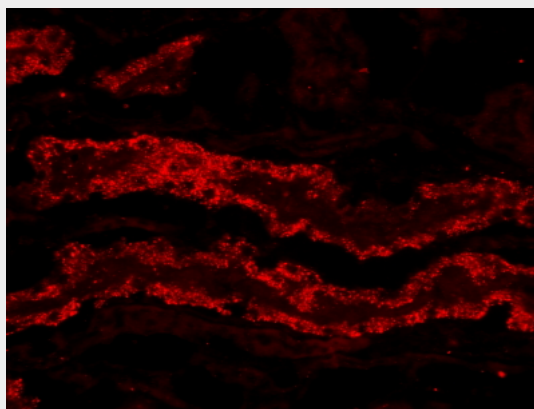
**Goat Anti-GPX3 Antibody - Protocols**

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](#)

**Goat Anti-GPX3 Antibody - Images**

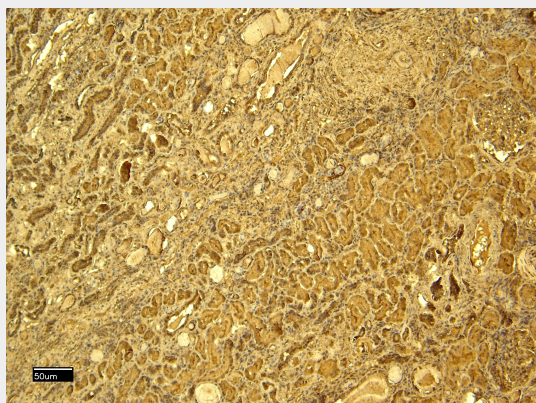
AF1500a (1  $\mu$ g/ml) staining of Mouse Heart lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



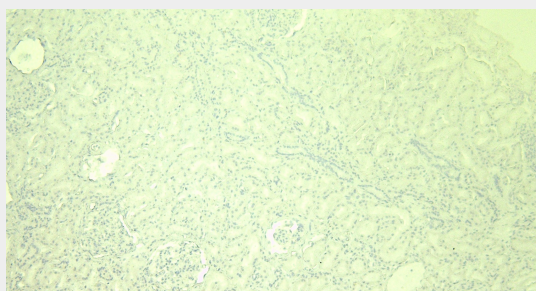
AF1500a (20 µg/ml) staining of PFA-perfused cryosection of Porcin Kidney. Microwave antigen retrieval with citrate buffer pH 3, CY3-staining. Data obtained from Dr. Hrvoje Brzica, University of Zagreb, Croatia



EB07685 (2µg/ml) staining of Mouse Heart lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB07685 (4µg/ml) staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB07685 Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.

#### Goat Anti-GPX3 Antibody - 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.

### **Goat Anti-GPX3 Antibody - References**

Assessing oxidative pathway genes as risk factors for bipolar disorder. Fullerton JM, et al. Bipolar Disord, 2010 Aug. PMID 20712757.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Functional glutathione peroxidase 3 polymorphisms associated with increased risk of Taiwanese patients with gastric cancer. Wang JY, et al. Clin Chim Acta, 2010 Oct 9. PMID 20576521.

Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.

Differential expression and distribution of placental glutathione peroxidases 1, 3 and 4 in normal and preeclamptic pregnancy. Mistry HD, et al. Placenta, 2010 May. PMID 20303587.