

**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
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

#### 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

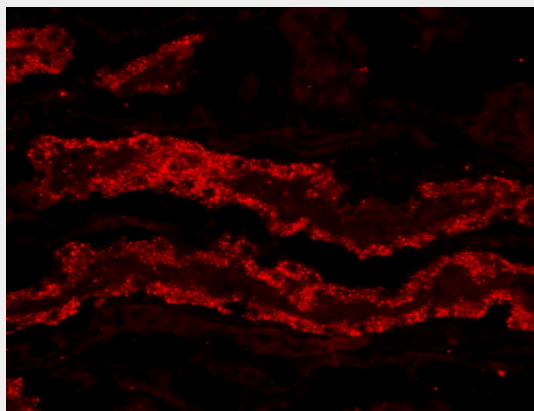
Provided below are standard protocols that you may find useful for product applications.

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

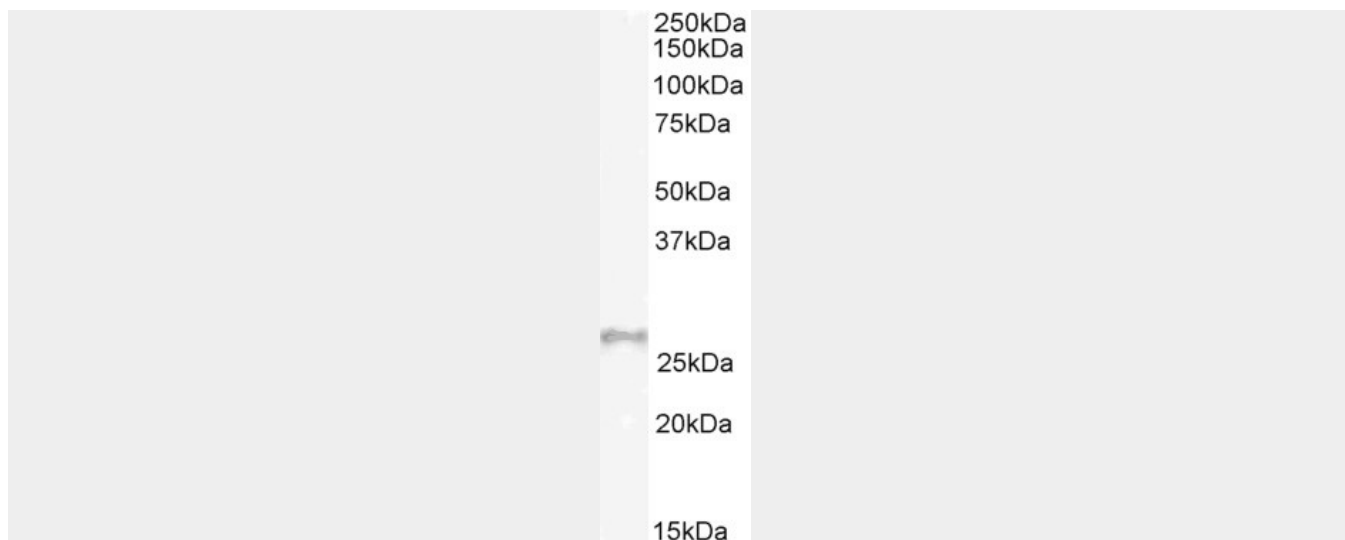
### Goat Anti-GPX3 Antibody - Images



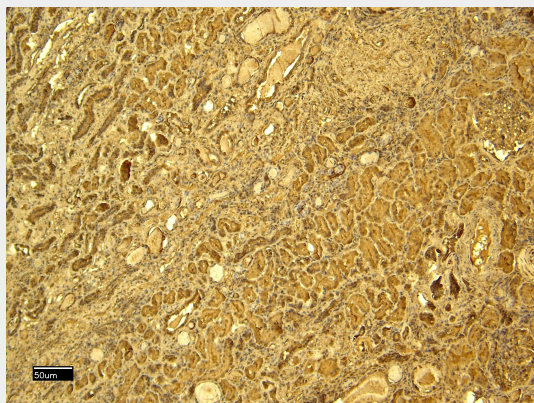
AF1500a (1  $\mu$ g/ml) staining of Mouse Heart lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



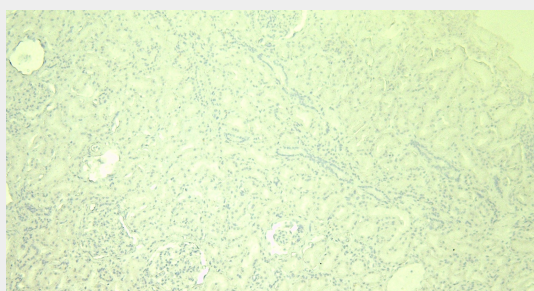
AF1500a (20  $\mu$ g/ml) staining of PFA-perfused cryosection of Porcin Kidney. Microwave antigen retrieval with citrate buffer pH 3, CY3-staining. Data obtained from Dr. Hrvoje Brzica, University of Zagreb, Croatia



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



EB07685 (4 $\mu$ g/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 Thiazolinedione-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.