

## Anti-GPX1 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat
Molecular Weight:	Theoretical: 22 kDa. Actual: 22 kDa.
Purification:	Protein A purified

### Applications

1. Sample: Spleen (Mouse) Lysate at 40 µg  
Primary: Anti-GPX1 (TMAB-00805) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 22 kDa  
Observed band size: 22 kDa
2. Blank control: U937. Primary Antibody (green line): Rabbit Anti-GPX1 antibody (TMAB-00805)  
Dilution: 2 µg/10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody: Goat anti-rabbit IgG-PE  
Dilution: 1 µg/test.

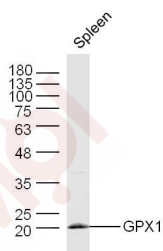
#### Protocol

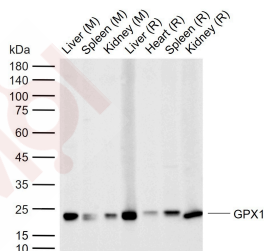
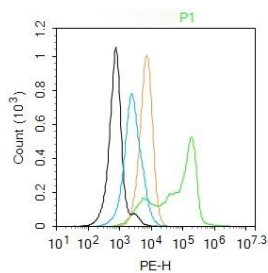
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at PBST. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

#### Verified Activity:

#### 3. Sample:

- Lane 1: Mouse Liver tissue lysates
  - Lane 2: Mouse Spleen tissue lysates
  - Lane 3: Mouse Kidney tissue lysates
  - Lane 4: Rat Liver tissue lysates
  - Lane 5: Rat Heart tissue lysates
  - Lane 6: Rat Spleen tissue lysates
  - Lane 7: Rat Kidney tissue lysates
- Primary: Anti-GPX1 (TMAB-00805) at 1/500 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 22 kDa  
Observed band size: 22 kDa





Application: WB  
Recommended WB=1:500-2000

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen: KLH conjugated synthetic peptide: mouse Glutathione Peroxidase 1  
Antigen Species: Mouse  
Gene ID: 14775  
Uniprot ID: P11352  
Biology Area: Cellular metabolic process, Oxidative Stress, Mitochondrial markers, Antioxidants, Oxidative stress, Cancer, Mitochondrial

## Research Background

This gene product belongs to the family of glutathione peroxidase, 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. [provided by RefSeq].

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481