

# Anti-Glutathione Peroxidase 4 Rabbit Monoclonal Antibody

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**CATALOG NO.:** A2358-50 (50 µl)  
A2358-100 (100 µl)

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**BACKGROUND DESCRIPTION:** Glutathione peroxidase 4 (also known as GPX4) belongs to the glutathione peroxidase family, members of which catalyze the reduction of hydrogen peroxide, organic hydroperoxides and lipid hydroperoxides, and thereby protect cells against oxidative damage. Several isozymes of this gene family exist in vertebrates, which vary in cellular location and substrate specificity. This isozyme has a high preference for lipid hydroperoxides and protects cells against membrane lipid peroxidation and cell death. It is also required for normal sperm development; thus, it has been identified as a 'moonlighting' protein because of its ability to serve dual functions as a peroxidase, as well as a structural protein in mature spermatozoa.

**ALTERNATE NAMES:** PHGPx; Selenoprotein GPX4; SnPHGPx; SnGPx; SMDS; GPX4

**ANTIBODY TYPE:** Monoclonal

**HOST/ISOTYPE:** Recombinant / Rabbit IgG

**IMMUNOGEN:** Synthesized peptide derived from human glutathione peroxidase 4

**PURIFICATION:** Affinity Purification

**MOLECULAR WEIGHT:** 17 kDa

**FORM:** Liquid

**FORMULATION:** In PBS, pH 7.3, with 0.02% sodium azide, 0.05% BSA, 50% glycerol

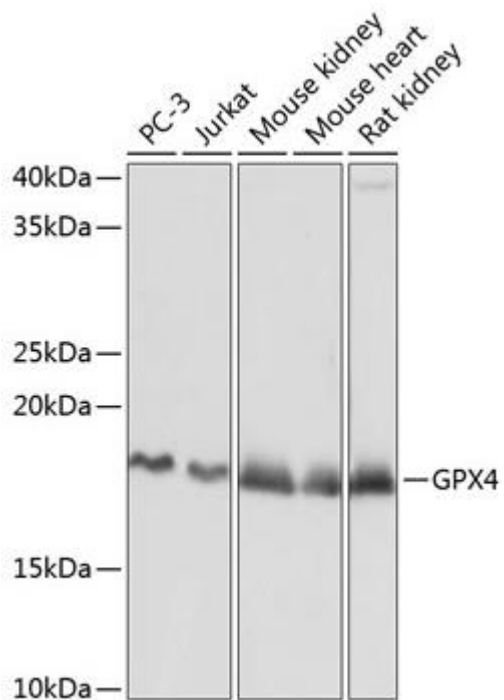
**SPECIES REACTIVITY:** Human, Mouse, Rat

**FORMULATION:** In PBS, pH 7.3, with 0.02% sodium azide, 0.05% BSA, 50% glycerol

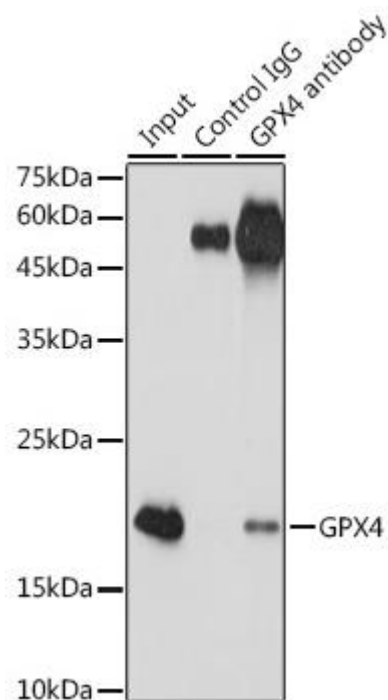
**STORAGE CONDITIONS:** Aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles

**APPLICATIONS:** Western Blot: 1:500 to 1:2000 dilution; Immunoprecipitation: 1:50 to 1:200 dilution

**This information is only intended as a guide. The optimal dilutions must be determined by the user**



Western blot analysis of various cell lysate extracts using Anti-Glutathione Peroxidase 4 Rabbit Monoclonal Antibody.



Immunoprecipitation analysis of Jurkat cell extracts using Anti-Glutathione Peroxidase 4 Rabbit Monoclonal Antibody.

#### RELATED PRODUCTS:

Glutathione Peroxidase Activity Colorimetric Assay Kit (Cat. No. K762)  
 Glutathione Reductase (GR)(Human) ELISA Kit (Cat. No. E4623)  
 Anti-GSTP1 Antibody (Cat. No. A1003)  
 Anti-GST-Tag Antibody (4G4) (Cat. No. A1021)  
 Glutathione (GSH/GSSG/Total) Fluorometric Assay Kit (Cat. No. K264)

**FOR RESEARCH USE ONLY! Not to be used on humans.**