Anti-Glutathione Peroxidase 4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011716

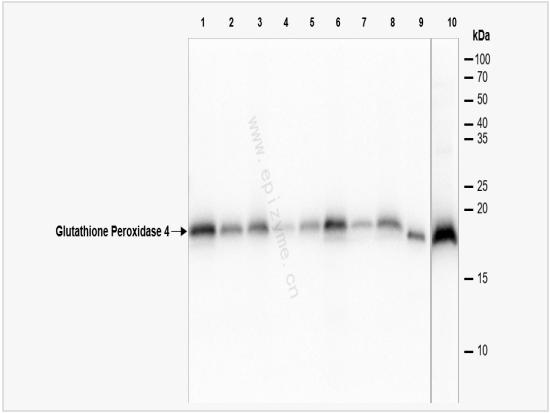
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	82K58M44
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from Glutathione Peroxidase 4
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Glutathione Peroxidase 4 Rabbit mAb [82K58M44] is for research use only and not for use in diagnostic or therapeutic procedures.

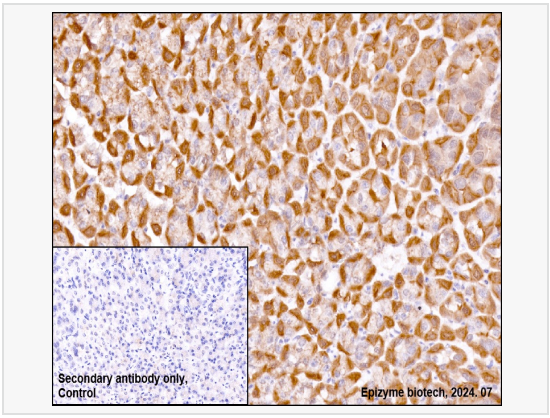
Protein Information

Synonyms	Glutathione peroxidase 4, GPX 4, GPX-4, GPX4, GPX4_HUMAN, GSHPx-4, MCSP, mitochondrial, PHGPx, Phospholipid hydroperoxidase, Phospholipid hydroperoxide glutathione peroxidase, Phospholipid hydroperoxide glutathione peroxidase mitochondrial, snGPx, snPHGPx, Sperm nucleus glutathione peroxidase.
Calculated MW	Calculated MW: 22 kDa; Observed MW: 17 kDa
Uniprot ID	P36969
Gene ID	2879
Background	Protects cells against membrane lipid peroxidation and cell death. Required for normal sperm development and male fertility. Could play a major role in protecting mammals from the toxicity of ingested lipid hydroperoxides. Essential for embryonic development. Protects from radiation and oxidative damage.

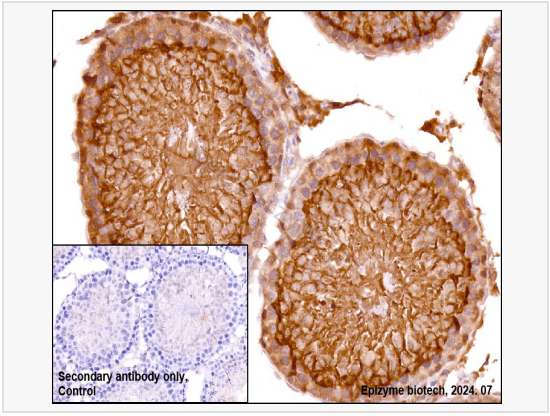
Validation Images



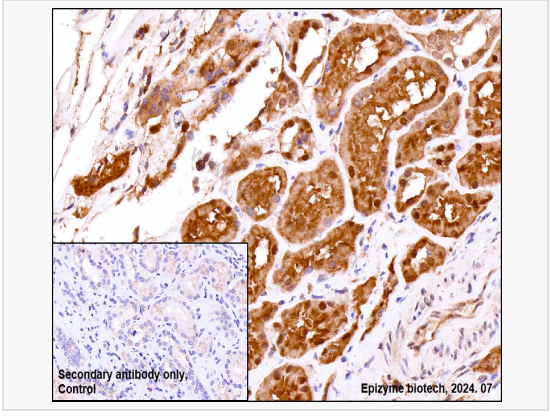
Western Blot - Anti-Glutathione Peroxidase 4 Rabbit mAb [82K58M44]
All lanes: R011716 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 5: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 6: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 7: 293T (Human embryonic kidney cell) whole cell lysates
Lane 8: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 9: Rat heart whole tissue lysates
Lane 10: Balb/c mouse brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 22 kDa
Observed band size: 17 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Glutathione Peroxidase 4 Rabbit mAb [82K58M44]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011716 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Glutathione Peroxidase 4 Rabbit mAb [82K58M44]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011716 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Glutathione Peroxidase 4 Rabbit mAb [82K58M44]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse stomach tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011716 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.