bs-3882R **[Primary Antibody]**

GPX1 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 14775 **SWISS:** P11352

Target: GPX1

Immunogen: KLH conjugated synthetic peptide derived from mouse Glutathione Peroxidase 1: 51-150/201.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

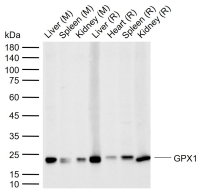
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat, Sheep (predicted: Pig, Cow, Dog, GuineaPig, Horse)

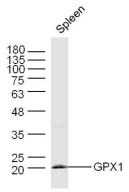
Predicted MW.: 22 kDa

Subcellular Location: Cytoplasm

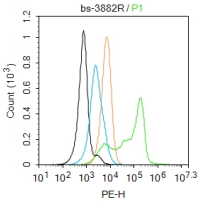
VALIDATION IMAGES



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 (bs-3882R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22 kDa Observed band size: 22 kD



Sample: Spleen (Mouse) Lysate at 40 ug Primary: Anti- GPX1 (bs-3882R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22 kD Observed band size: 22 kD



Blank control:U937. Primary Antibody (green line): Rabbit Anti-GPX1 antibody (bs-3882R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min 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. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=12.2]** Li Mou. et al. GRP78/IRE1 and cGAS/STING pathway crosstalk through CHOP facilitates iodoacetic acid-mediated testosterone decline. J HAZARD MATER. 2024 Sep;476:135101 WB ;Rat. 39002476
- **[IF=8.8]** Jiajun Chen. et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism. J PHARM ANAL. 2023 Aug;:

WB ;Rat. 10.1016/j.jpha.2023.08.008

- **[IF=6.291]** Changjiang Liu. et al. JNK and Jag1/Notch2 co-regulate CXCL16 to facilitate cypermethrin-induced kidney damage. ECOTOX ENVIRON SAFE. 2022 Jun;238:113582 WB ;Rat. 35512476
- **[IF=6.1]** Yun, Yang, et al. "Sulfate Aerosols Promote Lung Cancer Metastasis by Epigenetically Regulating the Epithelial-to-Mesenchymal Transition (EMT)." Environmental Science & Technology (2017). WB ;="Human". 28901751
- **[IF=6.208]** Yanan Hao. et al. Alginate Oligosaccharides Repair Liver Injury by Improving Anti-Inflammatory Capacity in a Busulfan-Induced Mouse Model. INT J MOL SCI. 2023 Jan;24(4):3097 WB ;Mouse. 36834506