

**bs-3875R****[ Primary Antibody ]****Peroxiredoxin 1 Rabbit pAb**

**Bioss**  
ANTIBODIES

www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5052**SWISS:** Q06830**Target:** Peroxiredoxin 1**Immunogen:** KLH conjugated synthetic peptide derived from human PRDX1: 1-100/199.**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.

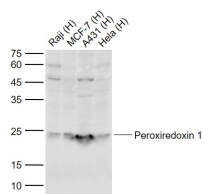
**Background:** This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jan 2011].

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

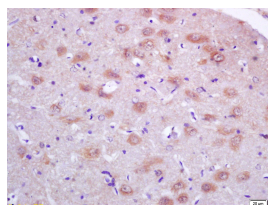
**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Pig, Cow, Dog, Horse)

**Predicted MW.:** 22 kDa

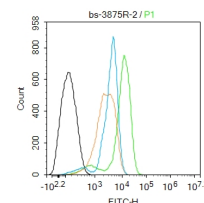
**Subcellular Location:** Cell membrane ,Cytoplasm

**VALIDATION IMAGES**

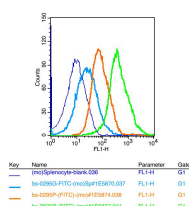
Sample: Lane 1: Human Raji cell lysates Lane 2: Human HeLa cell lysates Lane 3: Human A431 cell lysates Lane 4: Human HeLa cell lysates Primary: Anti-Peroxiredoxin 1 (bs-3875R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22 kD Observed band size: 23 kD



Tissue/cell: Rat brain; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-PRDX1 Polyclonal Antibody, Unconjugated(bs-3875R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: HeLa. Primary Antibody (green line): Rabbit Anti-Peroxiredoxin 1 antibody (bs-3875R) Dilution: 2µg/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5µg/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1%PBST for 20 min at room temperature.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.



Blank control: mouse splenocytes(blue) Isotype Control Antibody: Rabbit IgG(orange) ;

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 1µl in 100 µL 1X PBS containing 0.5% BSA(green).

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## — SELECTED CITATIONS —

- **[IF=2.86]** Fu, Qiang, et al. "Proteome Profile and Quantitative Proteomic Analysis of Buffalo (Bubalus bubalis) Follicular Fluid during Follicle Development." *International Journal of Molecular Sciences* 17.5 (2016): 618. WB ;Other Species. 27136540
- **[IF=2.15]** Sun, Qi-Kai, et al. "Diagnostic and prognostic significance of peroxiredoxin 1 expression in human hepatocellular carcinoma." *Medical Oncology* 31.1 (2014): 1-9. IHC ;Human. 24297309
- **[IF=2.21]** Nedret Kilic. et al. Thioredoxin system and miR-21, miR-23a/b and let-7a as potential biomarkers for brain tumor progression: Preliminary Case Data. *WORLD NEUROSURG.* 2022 Sep;: WB ;Human. 36096386