bs-1874R **[Primary Antibody]**

Peroxiredoxin 3 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: 10935 **SWISS:** P30048

Target: Peroxiredoxin 3

Immunogen: KLH conjugated synthetic peptide derived from human PRDX3: 161-256/256.

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: The Peroxiredoxin (Prdx, Prx, or Trx-Px) family of enzymes is a recently identified family of peroxidases found in free-living organisms. The six known isoforms (Prx1-6) play an important role in protecting lipids, enzymes and DNA against peroxides, such as hydrogen peroxide. The ubiquitously expressed peroxiredoxins have also been shown to play a role in apoptosis and cell differentiation. This is acomplished by the active cysteine of Prx reducing peroxides, which is then converted into a transient cysteine sulfenic acid or cysteine sulfinic acid. If Prx protection is inadequate against peroxidases, the resulting protein and DNA damage may result in neurological disease such as Alzheimer's or DNA damage leading to cancer.

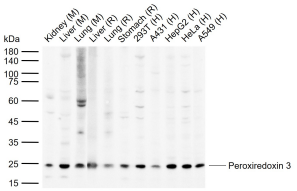
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

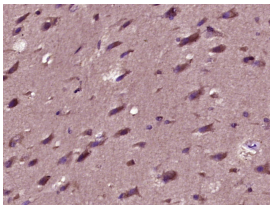
Predicted MW.: 21 kDa

Subcellular Location: Cytoplasm

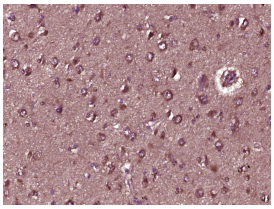
VALIDATION IMAGES



Sample: Lane 1: Mouse Kidney tissue lysates Lane 2: Mouse Liver tissue lysates Lane 3: Mouse Lung tissue lysates Lane 4: Rat Liver tissue lysates Lane 5: Rat Lung tissue lysates Lane 6: Rat Stomach tissue lysates Lane 7: Human 293T cell lysates Lane 8: Human A431 cell lysates Lane 9: Human HepG2 cell lysates Lane 10: Human HeLa cell lysates Lane 11: Human A549 cell lysates Primary: Anti-Peroxiredoxin 3 (bs-1874R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 21 kDa Observed band size: 25 kDa



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Peroxiredoxin 3) Polyclonal Antibody, Unconjugated (bs-1874R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Peroxiredoxin 3) Polyclonal Antibody, Unconjugated (bs-1874R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=13.6]** Gaolong Zhong. et al. Mitochondrial miR-12294-5p regulated copper-induced mitochondrial oxidative stress and mitochondrial quality control imbalance by targeted inhibition of CISD1 in chicken livers. J HAZARD MATER. 2023 Sep;458:131908 WB ;Chicken. 37364438
- **[IF=6.1]** Shan Zhang. et al. Synergistic lethality between auranofin-induced oxidative DNA damage and ATR inhibition in

cancer cells. LIFE SCI. 2023 Nov;332:122131 WB ;Human. 37778414

- **[IF=2.04]** Gao, Hong, et al. "Comparative study of Hsp27, GSK3β, Wnt1 and PRDX3 in Hirschsprungs disease." International Journal of Experimental Pathology (2014). WB ;="Human". 24773279