

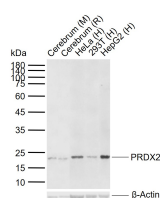
**bs-8300R****[ Primary Antibody ]****PRDX2 Rabbit pAb****Bioss**  
**ANTIBODIES**

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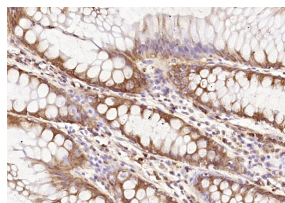
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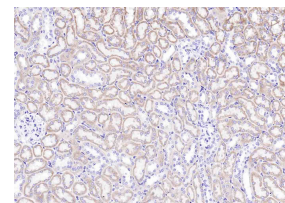
400-901-9800

**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 7001**SWISS:** P32119**Target:** PRDX2**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 plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013]**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**ICC/IF** (1:100-500)**ELISA** (1:5000-10000)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Pig, Cow, Dog, Horse)**Predicted MW.:** 22 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Cerebrum tissue lysates  
 Lane 2: Rat Cerebrum tissue lysates Lane 3:  
 Human HeLa cell lysates Lane 4: Human 293T  
 cell lysates Lane 5: Human HepG2 cell lysates  
 Primary: Anti-PRDX2 (bs-8300R) at 1/1000  
 dilution Secondary: IRDye800CW Goat Anti-  
 Rabbit IgG at 1/20000 dilution Predicted band  
 size: 22 kDa Observed band size: 22 kDa



Paraformaldehyde-fixed, paraffin embedded  
 (human colon carcinoma); 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 2)  
 Polyclonal Antibody, Unconjugated (bs-8300R)  
 at 1:200 overnight at 4°C, followed by operating  
 according to SP Kit(Rabbit) (sp-0023)  
 instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded  
 (mouse kidney); 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 (PRDX2) Polyclonal Antibody,  
 Unconjugated (bs-8300R) at 1:200 overnight at  
 4°C, followed by operating according to SP  
 Kit(Rabbit) (sp-0023) instructionsand DAB  
 staining.