

bs-6874R**[Primary Antibody]****Bioss**
ANTIBODIES

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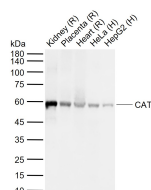
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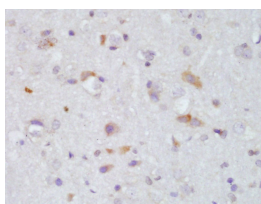
400-901-9800

CAT Rabbit pAb**— DATASHEET —**

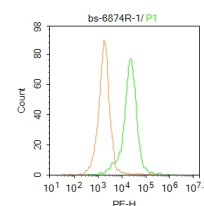
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1 μ g/Test) ELISA (1:5000-10000)
Clonality: Polyclonal		
GeneID: 12359	SWISS: P24270	
Target: CAT		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Reactivity: Human, Rat (predicted: Mouse, Horse)
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: Catalase is the classical marker for peroxisomes and is the most abundant protein within peroxisomes. It is found in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide.		
		Predicted MW.: 60 kDa Subcellular Location: Cytoplasm

— VALIDATION IMAGES —

Sample: Lane 1: Rat Kidney tissue lysates Lane 2: Rat Placenta tissue lysates Lane 3: Rat Heart tissue lysates Lane 4: Human HeLa cell lysates Lane 5: Human HepG2 cell lysates Primary: Anti-CAT (bs-6874) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kDa Observed band size: 60 kDa



Tissue/cell: rat brain tissue; 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-Catalase Polyclonal Antibody, Unconjugated(bs-6874R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: HL60. Primary Antibody (green line): Rabbit Anti-Catalase antibody (bs-6874R) Dilution: 1 μ g /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1 μ g /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 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.

— SELECTED CITATIONS —

- **[IF=15.304]** Yao Lei. et al. Phytochemical natural killer cells reprogram tumor microenvironment for potent immunotherapy of solid tumors. BIOMATERIALS. 2022 Jun;;121635 IF,FCM ;Mouse. 10.1016/j.biomaterials.2022.121635
- **[IF=8.897]** Liu, Houli. et al. Immunomodulatory hybrid bio-nanovesicle for self-promoted photodynamic therapy. Nano Res. 2022 Feb;;1-10 WB ;Mouse. 10.1007/s12274-021-4050-3
- **[IF=7.675]** Shuang Wang. et al. Dioscin Protects against Cisplatin-Induced Acute Kidney Injury by Reducing Ferroptosis and Apoptosis through Activating Nrf2/HO-1 Signaling. ANTIOXIDANTS-BASEL. 2022 Dec;11(12):2443 IHC ;Rat. 36552651
- **[IF=7.468]** Dr. Evan Paul Tracy. et al. Stromal Vascular Fraction Restores Vasodilatory Function by Reducing Oxidative Stress in Aging-Induced Coronary Microvascular Disease. ANTIOXID REDOX SIGN. 2022 Aug 11 IF ;Rat. 35950616

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

- **[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