

bs-3889R**[Primary Antibody]****NOX2 Rabbit pAb****Bioss**
ANTIBODIES

www.bioss.com.cn

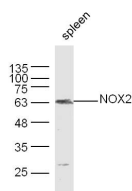
sales@bioss.com.cn

techsupport@bioss.com.cn

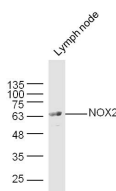
400-901-9800

— DATASHEET —

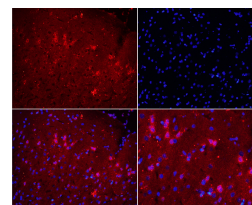
Host: Rabbit Clonality: Polyclonal GeneID: 1536 Target: NOX2 Immunogen: KLH conjugated synthetic peptide derived from human NOX2: 501-570/570. < Cytoplasmic > Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: NOX2/gp91phox is a critical component of the membrane-bound oxidase of phagocytes that generates superoxide. It is the terminal component of a respiratory chain that transfers single electrons from cytoplasmic NADPH across the plasma membrane to molecular oxygen on the exterior. It also functions as a voltage-gated proton channel that mediates the H(+) currents of resting phagocytes. It participates in the regulation of cellular pH and is blocked by zinc. Defects in CYBB are a cause of X-linked chronic granulomatous disease (X-CGD). X-CGD is characterized by the failure of activated phagocytes to generate superoxide. Patients suffer from life-threatening bacterial/fungal infections.	Isotype: IgG SWISS: P04839	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, Pig, Cow, Chicken, Dog, Horse) Predicted MW.: 65 kDa Subcellular Location: Cell membrane
--	---	--

— VALIDATION IMAGES —

Sample: Spleen (Mouse) Lysate at 40 ug
Primary: Anti-NOX2 (bs-3889R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 65 kD
Observed band size: 65 kD



Sample: Lymph node (Mouse) Lysate at 40 ug
Primary: Anti-NOX2 (bs-3889R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 65 kD
Observed band size: 65 kD



Tissue/cell: rat brain tissue;4%
Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-NOX2 Polyclonal Antibody, Unconjugated(bs-3889R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3) used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml, blue, C-0033) was used to stain the cell nuclei

— SELECTED CITATIONS —

- **[IF=22.634]** Lagadinou, Eleni D., et al. "BCL-2 inhibition targets oxidative phosphorylation and selectively eradicates quiescent human leukemia stem cells." Cell stem cell 12.3 (2013): 329-341. FCM ;Human. 23333149
- **[IF=11.4]** Yang Sui. et al. Gut bacteria exacerbates TNBS-induced colitis and kidney injury through oxidative stress. REDOX BIOL. 2024 Jun;72:103140 WB ;Mouse. 38593629

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

- **[IF=9.83]** Wakatsuki, Shuji, et al. "Oxidative stress-dependent phosphorylation activates ZNRF1 to induce neuronal/axonal degeneration." *The Journal of Cell Biology* (2015): jcb-201506102. IHC ;Mouse. 26572622
- **[IF=9.038]** Xie C et al. Mechanism investigation on Bisphenol S-induced oxidative stress and inflammation in murine RAW264.7 cells: The role of NLRP3 inflammasome, TLR4, Nrf2 and MAPK. *J Hazard Mater* . 2020 Jul 15;394:122549. WB,IF ;mouse. 32283380
- **[IF=8.116]** Rukang Zhang. et al. Cellular signals converge at the NOX2-SHP-2 axis to induce reductive carboxylation in cancer cells. *CELL CHEM BIOL*. 2022 Apr;; ICC ;Human. 35429459