bs-1278R **[Primary Antibody]**

8-OHdG (DNA/RNA Damage) Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: 8-OHdG (DNA/RNA Damage)

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: 8-Hydroxydeoxyguanosine (8OHdG) is a modified base that occurs in DNA due to attack by hydroxyl radicals that are formed as byproducts and intermediates of aerobic metabolism and during oxidative stress. There is increasing evidence to support the involvement of free radical reactions in the damage of biomolecules that eventually lead to several diseases in humans, such as atherosclerosis, cerebral and heart ischemia-reperfusion injury, cancer, rheumatoid arthritis, inflammation, diabetes, aging, and neurodegenerative conditions, such as Alzheimer's disease.

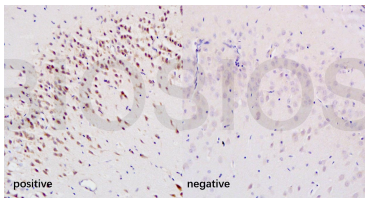
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Rat, Species independent

Predicted MW.: 0.283 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Tissue/cell: rat brain tissue(left panel was injury,Right panel was normal); 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-8-OHdG Polyclonal Antibody, Unconjugated(bs-1278R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=30.9]** Hang Zhang. et al. The foam cell-derived exosomes exacerbate ischemic white matter injury via transmitting metabolic defects to microglia. CELL METAB. 2025 五月 08 IF ;Mouse. 40345179
- **[IF=30.083]** Davide Povero. et al. HILPDA promotes NASH-driven HCC development by restraining intracellular fatty acid flux in hypoxia. J HEPATOL. 2023 Apr;: IHC ;Mouse. 37061197
- **[IF=15.881]** Yuan Chen. et al. Intrinsic Radical Species Scavenging Activities of Tea Polyphenols Nanoparticles Block Pyroptosis in Endotoxin-Induced Sepsis. Acs Nano. 2022;XXXX(XXX):XXX-XXX IHC ;Mouse. 35133795
- **[IF=16.304]** Yi Luet al. Activation of NRF2 ameliorates oxidative stress and cystogenesis in autosomal dominant polycystic kidney disease. Sci Transl Med . 2020 Jul 29;12(554):eaba3613. IHC ;mouse. 32727915

- **[IF=15.7]** Zhao Zhenxiang. et al. Activity-based sensing reveals elevated labile copper promotes liver aging via hepatic ALDH1A1 depletion. NAT COMMUN. 2025 Feb;16(1):1-12 WB ;Mouse. 39979263