




Rabbit Anti-8-OHdG/DNA/RNA Damage antibody

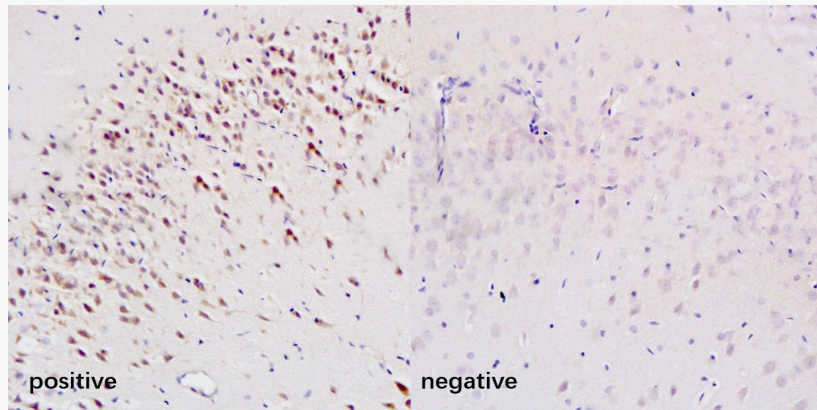
SL1278R

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| Product Name: | 8-OHdG/DNA/RNA Damage |
| Chinese Name: | 8-羟基脱氧鸟苷/DNA/RNA Damage抗体 |
| Alias: | 8 Hydroxyguanosine; 8-Hydroxy-2'-deoxyguanosine; 8-Hydroxydeoxyguanosine; 8 hydroxy 2' deoxyguanosine; 8 hydroxyguanine; 8 hydroxyguanosine; 8 OHG; 8-OHG; 8OG; 8OHdG; 8OHG; 8 Oxoguanine; 8 hydroxyguanine; 8 Oxo 7,8 dihydroguanine; 8 oxo Gua; 8 oxoG. |
| 文献引用  | <p>Specific References(9) SL1278R has been referenced in 9 publications.</p> <p>[IF=3.73]Yong, Rachel, et al. "Plumbagin Ameliorates Diabetic Nephropathy via Interruption of Pathways that Include NOX4 Signalling." PLOS ONE 8.8 (2013): e73428.Mouse. PubMed:23991195</p> <p>[IF=3.51]Zhang, Ting-Ting, et al. "Electrochemiluminescence immunosensor for highly sensitive detection of 8-hydroxy-2'-deoxyguanosine based on carbon quantum DoT coated Au/SiO₂ core-shell nanoparticles." Talanta (2014).other; PubMed:25281118</p> <p>[IF=4.24]Stangenberg, Stefanie, et al. "Oxidative Stress, Mitochondrial Perturbations and Fetal Programming of Renal Disease induced by Maternal Smoking." The International Journal of Biochemistry & Cell Biology (2015).IHC-P;Mouse. PubMed:25849459</p> <p>[IF=2.42]Feng, Demin, et al. "Ameliorative effects of N-acetylcysteine on fluoride-induced oxidative stress and DNA damage in male rats' testis." Mutation Research/Genetic Toxicology and Environmental Mutagenesis 792 (2015): 35-45.IHC-P;Rat.</p> |

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| | <p style="text-align: center;">PubMed:26433260</p> <p>[IF=3.74] Pan, Deng, et al. "Electrochemical immunoassay for the biomarker 8-hydroxy-2'-deoxyguanosine using a glassy carbon electrode modified with chitosan and poly (indole-5-carboxylic acid)." <i>Microchimica Acta</i> (2015): 1-8.other;</p> <p style="text-align: center;">PubMed:not posted yet</p> <p>[IF=11.09] Tumurkhuu, Gantsetseg, et al. "Ogg1-Dependent DNA Repair Regulates NLRP3 Inflammasome and Prevents Atherosclerosis." <i>Circulation Research</i>(2016): CIRCRESAHA-116.IF(ICC);Mouse.</p> <p style="text-align: center;">PubMed:27384322</p> <p>[IF=2.16] Yan, Jiawei, et al. "56Fe irradiation-induced cognitive deficits through oxidative stress in mice." <i>Toxicology Research</i> (2016).IHC-P;Mouse.</p> <p style="text-align: center;">PubMed:0</p> <p>[IF=2.55] Yu, Dan, et al. "In vitro the differences of inflammatory and oxidative reactions due to sulfur mustard induced acute pulmonary injury underlying intraperitoneal injection and intratracheal instillation in rats." <i>International Immunopharmacology</i> 47 (2017): 78-87.IHC-P;Rat.</p> <p style="text-align: center;">PubMed:28365508</p> <p>[IF=5.78] Du, Xiaoping, et al. "Antioxidants Reduce Neurodegeneration and Accumulation of Pathologic Tau Proteins in the Auditory System after Blast Exposure." <i>Free Radical Biology and Medicine</i> (2017).IHC-P;Rat.</p> <p style="text-align: center;">PubMed:28438658</p> |
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| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | 8-OHdG |
| Applications: | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 0.283kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated to 8-OHdG: |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |

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| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | <p>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.</p> <p>Function: Oxoguanine 8 (8-Oxoguanine) is a mutagenic oxidative damage product of guanine. Guanine is the main target for reactive oxygen species in DNA, with 8-oxoguanine being the most frequent base lesion. Thus formation of 8-oxoguanine is an important biomarker of oxidative damage to DNA. It is primarily repaired by the DNA glycosylase OGG1.</p> <p>SWISS: N/A</p> <p>CAS: 3868-31-3</p> <p>Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.</p> <p>8-OHDG作为内源性及外源性因素对DNA氧化损伤作用的生物Marker, 是一个极有前途的指标, 通过8-OHDG的检测可以评估体内氧化损伤和修复的程度, 氧化应激与DNA损伤的相互关系, 对研究退行性疾病、衰老机制、癌发生机制、环境毒物与氧化应激的关系等均有重要的意义, 也可以用来评价抗氧化剂治疗DNA氧化损伤的效果。已经证实, 饮食、超氧化物歧化酶、Melatonin等对8-OHDG水平具有调节作用。近期日本学者制成一种抗氧化作用鸡尾酒, 由葵花籽、绿茶和维生素c组成, 证实了对FeCl2诱导的8-OHDG异常增加有回调作用。随着研究的深入, 8-OHDG的应用范围必将越来越广, 但到目前为止, 各种检测方法都还需进一步完善, 因而深入开展这项研究工作将有十分重要的实际意义。</p> |



Picture:

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(SL1278R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining