SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-8-OHdG/FITC Conjugated antibody

Catalog Number: SL1278R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-8-OHdG/FITC
Immunogen:	KLH conjugated to 8-OHdG
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Species independent
Background:	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. **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. **Subcellular Location:** Nuclear Important

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

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	Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Drug compound antibody 8-hydroxydeoxyguanosine is one of the modified products of DNA oxidative damage caused by reactive oxygen species (ROS). There are many reasons for its generation, mainly ionizing radiation, metabolic activation of chemical carcinogens, and the normal The new supersedes the old process of cells produce large amounts of ROS that directly attack guanine in DNA (dG), causing deoxyguanosine to be oxidized to 8-OHdG. It has currently become the most commonly used biological marker of DNA oxidative damage.

[VALIDATION IMAGES]

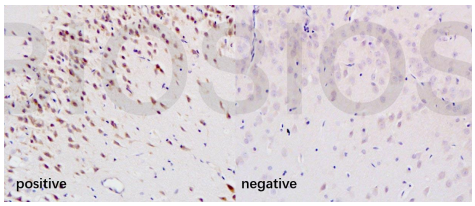


Figure 1. Tissue/cell: rat brain tissue(left panel was injury,Right panel was normal); 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ 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