bs-3687R

[Primary Antibody]

OGG1 Rabbit pAb

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

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GeneID: 4968 SWISS: 015527

Target: OGG1

Immunogen: KLH conjugated synthetic peptide derived from human OGG1/8

hydroxyguanine DNA glycosylase: 151-250/424.

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: This gene encodes the enzyme responsible for the excision of 8oxoguanine, a mutagenic base byproduct which occurs as a result of exposure to reactive oxygen. The action of this enzyme includes lyase activity for chain cleavage. Alternative splicing of the Cterminal region of this gene classifies splice variants into two major groups, type 1 and type 2, depending on the last exon of the sequence. Type 1 alternative splice variants end with exon 7 and type 2 end with exon 8. All variants share the N-terminal region in common, which contains a mitochondrial targeting signal that is essential for mitochondrial localization. Many alternative splice variants for this gene have been described, but the full-length nature for every variant has not been determined. [provided by RefSeq, Aug 2008].

Applications: IHC-P (1:100-500)

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

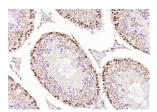
Reactivity: Human, Mouse, Rat

(predicted: Pig, Cow, Dog)

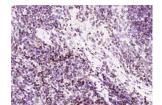
Predicted 38-47 kDa

Subcellular Cytoplasm ,Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OGG1) Polyclonal Antibody, Unconjugated (bs-3687R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OGG1) Polyclonal Antibody, Unconjugated (bs-3687R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

- SELECTED CITATIONS -

- [IF=10.6] Cogoi, Susanna, et al. "The regulatory G4 motif of the Kirsten ras (KRAS) gene is sensitive to guanine oxidation: implications on transcription." Nucleic Acids Research (201 ChIP; Human. 29165690
- [IF=5.8] Fei Zheng, et al. Mung bean-derived carbon dots suppress ferroptosis of Schwann cellsviathe Nrf2/HO-1/GPX4 pathway to promote peripheral nerve repair † .BIOMATERIALS SCIENCE.2025 Jan 27. Western blot;mouse. 39865780

• [IF=4.223] Zhao, Lifang. et al. Real-world PM2.5 exposure induces pathological injury and DNA damage associated with miRNAs and DNA methylation alteration in rat lungs. Environ Sci Pollut R. 2022 Jan;:1-16 WB; Rat. 34988794
• [IF=2.523] Zhi Chen. et al. Klotho deficiency aggravates diabetes-induced podocyte injury due to DNA damage caused by mitochondrial dysfunction. Int J Med Sci. 2020; 17(17): 2763–2772 WB; Mouse. 33162804