

## 8-OHdG monoclonal antibody, clone OHdG F5

Catalog # MAB6116

Size 20 ug

### Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against 8-Hydroxy-2'-deoxyguanosine (8-OHdG).
<b>Immunogen</b>	8-OHdG conjugated with KLH.
<b>Host</b>	Mouse
<b>Specificity</b>	Among the 19 analogues of 8-OHdG {guanosine (G), 7-methyl-G, 6-SH-G, 8-bromo-G, dA, dC, dT, dI, dU, dG, O <sup>6</sup> -methyl-dG, 8-OHdA, guanine (Gua), O <sup>6</sup> -methyl-Gua, 8-OHGua, uric acid, Urea, creatine, creatinine} demonstrate no cross-reactivity. Only 8-sulfhydryl-G and 8-OHG demonstrate minimal cross-reactivity (less than 1%).
<b>Form</b>	Lyophilized
<b>Isotype</b>	IgG1, kappa
<b>Recommend Usage</b>	Immunohistochemistry (5 -10 ug/mL IgG) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	Lyophilized from 50 mM PBS, pH 7.4 (1.0% BSA).
<b>Storage Instruction</b>	Store at less than -20°C on dry atmosphere. After reconstitution with distilled water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### Applications

- Immunohistochemistry

### Publication Reference

- [Asymmetrical arginine dimethylation of histone H4 by 8-oxog/OGG1/PRMT1 is essential for oxidative stress-induced transcription activation.](#)

Wentao Wang, Ying Ma, Miaoling Huang, Weichu Liang, Xingqi Zhao, Qianwen Li, Shiwei Wang, Zhigang Hu, Lingfeng He, Tao Gao, Jinfei Chen, Feiyan Pan, Zhigang Guo.

Free Radical Biology & Medicine 2021 Feb; 164:175.

Application: IF, Human, HeLa cells

- [SUMO2 regulates vascular endothelial function and oxidative stress in mice.](#)

Kim YR, Jacobs JS, Li Q, Gaddam RR, Vikram A, Liu J, Kassan M, Irani K, Kumar S.

American Journal of Physiology. Heart and Circulatory Physiology 2019 Dec; 317(6):H1292.

Application: IF, Mouse, Aortas

- [Protection against pyrimidine dimers, p53, and 8-hydroxy-2'-deoxyguanosine expression in ultraviolet-irradiated human skin by sunscreens: difference between UVB + UVA and UVB alone sunscreens.](#)

Liardet S, Scaletta C, Panizzon R, Hohlfeld P, Laurent-Applegate L.

The Journal of Investigative Dermatology 2001 Dec; 117(6):1437.

Application: IHC-P, Human, Human skin

- [Formation of 8-hydroxy-2'-deoxyguanosine and 4-hydroxy-2-nonenal-modified proteins in rat liver after ischemia-reperfusion: distinct localization of the two oxidatively modified products.](#)

Yamagami K, Yamamoto Y, Kume M, Ishikawa Y, Yamaoka Y, Hiai H, Toyokuni S.

Antioxidants & Redox Signaling 2000 Mar; 2(1):127.

Application: IHC-P, Rat, Rat liver

- [Age and organ dependent spontaneous generation of nuclear 8-hydroxydeoxyguanosine in male Fischer 344 rats.](#)

Nakae D, Akai H, Kishida H, Kusuoka O, Tsutsumi M, Konishi Y.

Laboratory Investigation; A Journal of Technical Methods and Pathology 2000 Feb; 80(2):249.

- [Intranuclear distribution of 8-hydroxy-2'-deoxyguanosine. An immunocytochemical study.](#)

Toyokuni S, Iwasa Y, Kondo S, Tanaka T, Ochi H, Hiai H.

The Journal of Histochemistry and Cytochemistry : Official Journal of the Histochemistry Society 1999 Jun; 47(6):833.

Application: IF, Rat, Rat kidney, testis

- [Hyperglycemia causes oxidative stress in pancreatic beta-cells of GK rats, a model of type 2 diabetes.](#)

Ihara Y, Toyokuni S, Uchida K, Odaka H, Tanaka T, Ikeda H, Hiai H, Seino Y, Yamada Y.

Diabetes 1999 Apr; 48(4):927.

Application: IHC-P, Rat, Rat pancreas