



# Anti-8-Hydroxy-2'-deoxyguanosine (8-OHdG) Monoclonal Antibody (N45.1)

**Code:** **NNS-MOG-100P-EX**  
(100µg of IgG, Lyophilized powder)  
**NNS-MOG-020P-EX**  
(20µg of IgG, Lyophilized powder)

**Source:** Mouse  
Prepared as ascite, and ammonium sulfate purified

**Clone #:** N45.1

**Immunogen:** 8-Hydroxy-2'-deoxyguanosine (8-OHdG)  
conjugated keyhole limpet hemocyanin.

**Subclass:** IgG1(κ)

**Application:** Immunohistochemistry [ref.1, 2, 3]  
(Recommended concentration: 5~10µg/mL IgG)



Epidermis from hairless mouse by chronic UVB irradiation after 4 weeks of treatment attained with N45.1[ref.2]

**Reconstitution:** MOG-100P: Dissolve in 1mL of distilled water.  
MOG-020P: Dissolve in 200µL of distilled water.

**Buffer Concentration:** 100µg/mL IgG in 10mM Phosphate buffered saline, pH7.4 containing 1.0% BSA

**Specificity:** 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>8</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%). [ref.1]

**Storage:** Store at less than -20°C  
After reconstitution, store as frozen aliquots and avoid repeated freeze & thaw.

**Stability:** 5 years at -20°C

**References:** 1) S.Toyokuni *et al. Laboratory Investigation* 76(3), p365-374 (1997)  
2) Y.Hattori *et al. J.Invest.Dermatol.* 107, p733-737 (1996)  
3) T.Tanaka *et al. Laboratory Investigation* 77(2), p145-155 (1997)

**For research use only, not for diagnostic use.**

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