

Product datasheet for **AM20226PU-S**

8-Hydroxy-Guanosine / 8-OHG Mouse Monoclonal Antibody [Clone ID: N45.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	N45.1
Applications:	ELISA, IF, IHC
Recommended Dilution:	ELISA (Ref.3). Immunohistochemistry on Paraffin Sections: 3-5 µg/ml (See Ref.1-6 for more details). Immunocytochemistry (Ref.7).
Reactivity:	Human, Mouse, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	8-OHdG conjugated Keyhole Limpet Hemocyanin
Specificity:	Recognizes 8-OHdG. 19 analogues of 8-OHdG {guanosine (G), 7-methyl-G, 6-SH-G, 8-bromo-G, dA, dC, dT, dI, dU, dG, O6-methyl-dG, 8-OHdA, guanine (Gua), O6-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%). Monoclonal antibody (clone N45.1) is highly specific for DNA damage, not cross react with RNA oxidation products such as 8-hydroxy-guanine and 8-hydroxy-guanosine.
Formulation:	State: Purified. 10 mM Phosphate buffered saline, pH7.4, 1.0% BSA State: Lyophilized.
Reconstitution Method:	Resuspend in 200 µl aqua bidest to 0.1 mg/ml
Purification:	Ammonium Sulphate Precipitation
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

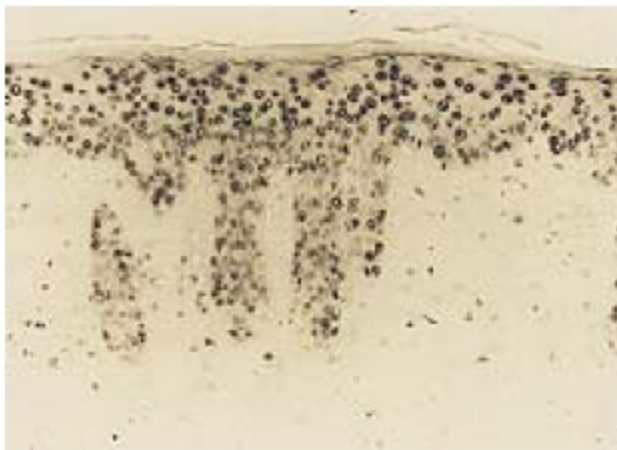


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Background: 8 Hydroxyguanosine (8OG) is a modified base which occurs in DNA as a result of oxidative stress. 8 Hydroxy-2'-deoxyguanosine (8OHdG) has become a sensitive marker of oxidative damage in cellular DNA and has been reported to be excreted in the urine. Levels of 8OHdG have been shown to increase on exposure to ionizing radiation and tobacco smoke.

Synonyms: 8-Hydroxy-2'-deoxyguanosine, 8-Hydroxyguanine, 8-Hydroxyguanosine, 8-OFdG, 8-OHG, 8OG, 8OHG, 8OHdG

Product images:



Immunohistochemistry: AM20226PU 8-OHG antibody staining of Paraffin Section of UV-irradiated Mouse Skin using an antigen retrieval in 0.1% Trypsin. The section was incubated with AM20226PU (5 g/ml), followed by staining with Avidin-Biotin-Complex method.