Antibodies

Data Sheet

8-OHdG (8-Hydroxy-2´-deoxyguanosine)

ANTIBODY, MONOCLONAL

Catalog no.: AA1005.1 / AA1005.2

Immunogen: 8-OHdG keyhole limpet hemocyanin-conjugated

Host: Mouse

Clone no.: N45.1

Isotype: $IgG_{1(kappa)}$

Matrix: Ascites, ammonium sulphate purified, 10 mM Phosphate buffered saline, pH7.4, 1.0% BSA

Specificity: 8-OHdG in human, rabbit, rat and mouse tissue and cells

There was no cross reactivity obtained with 19 analogues of 8-OHdG: guanosine (G), 7-methyl-G, 6-SH-G, 8-bromo-G, dA, dC, dT, dI, dU, dG, O^6-methyl-dG, 8-OHdA, guanine (Gua), O^6-methyl-Gua, 8-OHGua, uric acid, urea, creatine, creatinine. Only 8-sulfhydryl-G and 8-OHG demonstrate minimal cross-reactivity (less than 1%).

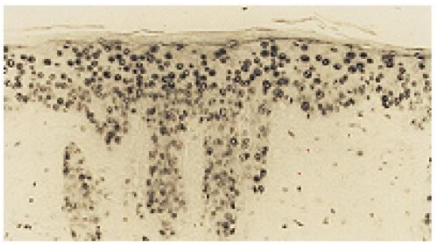

Figure 1: Immunohistochemistry image of 8-OHdG staining in paraffin section of UV-irradiated mouse skin. Antigen retrieval was performed in 0,1% trypsin. The section was incubated with AA1005 (5µg/ml), followed by staining with avidin-biotin-complex method. AA1005 stains epidermal cells and some infiltrating neutrophils and macrophages

Hattori Y et al. (1996) J Invest Dermatol 107(5): 733-737

Contents: 20 µg / 100 µg (lyophilized)

Resuspend in 200 µl / 1000 µl aqua bidest. for 100 µg/ml

Known applications: ELISA[3], immunohistochemistry (paraffin sections, 3-5 µg/ml)[1, 2, 3, 4, 5, 6], immunocytochemistry[7]

This antibody has not been tested for use in all applications. This does not necessarily exclude its use in non-tested procedures. The stated dilutions are recommendations only. End users should determine optimal dilutions in their system using appropriate negative/positive controls.

Store at: - 20 °C

Repeated thawing and freezing must be avoided

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References:

1. Hattori Y, Nishigori C, Tanaka T, Uchida K, Nikaido O, Osawa T, Hiai H, Imamura S, Toyokuni S (1996). 8-hydroxy-2'-deoxyguanosine is increased in epidermal cells of hairless mice after chronic ultraviolet B exposure. *J Invest Dermatol* **107**(5)**:** 733-737.

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For research use only

Publishing research using AA1005? Please let us know so that we can cite your publication as a reference.

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