MONOCLONAL ANTIBODY FOR ISOLATION OF OXIDATIVE DAMAGED DNA AND RNA

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ABSTRACT

A Monoclonal Antibody that binds to OH8dG, OH8G and OH8Guanine, oxidatively damaged products of DNA and RNA, has been developed by scientists at the University of California at Berkeley. The antibody binds with very high affinity to the damaged products thereby facilitating their isolation and quantization.

References:

PNAS 1992.v89.pp3375-3379

Methods of Enzymology: Oxygen Radicals in Biological Systems, Part D. L. Packer, ed., 1994.v234.pp16-33

APPLICATIONS

DNA adducts excised from oxidatively damaged DNA can be measured in urine or blood plasma samples, and can be correlated to in vivo DNA damage.

Panels of antibody specific for: purine deoxyribonucleosides, pyrimidene deoxyribonuclease and most guanine base adducts are also available for licensing (B91-035).

ADVANTAGES

This technology will enable the design of experiments to investigate the role of oxidative damage to DNA in cancer, aging, and other stresses.

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OTHER INFORMATION

KEYWORDS

antibody, research tool

CATEGORIZED AS

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» Antibodies

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