MONOCLONAL ANTIBODY TO 3-NITROTYROSINE, A BIOMARKER OF REACTIVE NITROGEN OXIDES

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ABSTRACT

This invention involves the development of a monoclonal antibody specific to 3-nitrotyrosine, a biomarker of inflammation-induced modification to protein-bound and free tyrosine residues. The monoclonal antibody was generated by immunization with a chemically defined hapten conjugated to a carrier protein, 3-(4-hydroxy-3-nitrophenylacetamido) propionic acid-BSA. The monoclonal demonstrated high specific activity against NTyr and in Western blots and immunohistochemical staining of tissue sections.

Reference: I. Girault, et al., 2001.Immunodetection of 3-nitrotyrosine in the liver of zymosan-treated rats with a new monoclonal antibody: comparison to analysis by HPLC. Free Radical Biology & Medicine. 31:1375-87

APPLICATIONS

Western blot

Immunohistochemistry

ADVANTAGES

High specific activity against 3-nitrotyrosine, a biomarker of reactive nitrogen oxides.

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OTHER INFORMATION

CATEGORIZED AS

» **Research Tools**

» Antibodies

RELATED CASES

2003-077-0