

Request Information Permalink

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

Tech ID: 17277 / UC Case 2003-077-0

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.

CONTACT

Terri Sale terri.sale@berkeley.edu tel: 510-643-4219.



OTHER INFORMATION

CATEGORIZED AS

» Research Tools

» Antibodies

RELATED CASES2003-077-0



University of California, Berkeley Office of Technology Licensing

2150 Shattuck Avenue, Suite 510, Berkeley, CA 94704

Tel: 510.643.7201 | Fax: 510.642.4566

 $https://ipira.berkeley.edu/\mid otl-feedback@lists.berkeley.edu$

© 2009 - 2010, The Regents of the University of California

Terms of use | Privacy Notice