

Data Sheet

DIBROMO-TYROSINE (DIBRY)

ANTIBODY, MONOCLONAL

Catalog no.: AA1014.1

Immunogen: 3, 5-dibromo-tyrosine KLH-conjugated

Mouse Balb/c Host:

3A5 Clone no.:

Isotype: IgG_{1 kappa}

Matrix: Protein A purified, 10 mM PBS pH 7.4

Specificity: Specific for di-halogenated tyrosine. Recognizes

> dibromo-tyrosine (DiBrY), N-acetylated dichlorotyrosine (NAcDiCIY), diiodo-tyrosine (DiIY),

> N-bromo-succinimide-treated BSA, HOCl-treated BSA and dibromo-tyrosine conjugated BSA. Bromotyrosine (BrY) is weakly recognized.

There was no cross reactivity obtained with dityrosine-conjugated BSA, peroxynitrite-treated BSA, tyrosine (Y), chlorotyrosine(CIY), 3-3'-dityrosine (DiY), 3-aminotyrosine (NH₂Y), 3-nitrotyrosine (NO₂Y), phenylalanine (Phe), o-phosphotyrosine, 3,

4-dihydroxyphenylacetic acid (DOPA) and

2-hydroxy-4-phenylacetic acid. No cross reactivity was obtained with brominated nucleic acids 5-

bromouracil, 5-bromouridine, and 8-

bromoguanosine.

Contents: 20 µg (lyophilized)

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

of IgG

Known applications: ELISA¹, Western Blot, immunohistochemistry

(paraffin sections, 10 µg/ml)¹

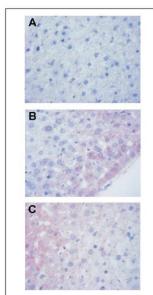


Figure 1: Immunohistochemistry image of Dibromo-tyrosine staining in paraffin sections of LPS-treated mouse liver. Antigen retrieval was performed by microwave treatment in 0.01 M citrate buffer (pH 6.0) for 5 min. The sections were incubated with AA1014 (10 µg/ml) and detected using biotinylated secondary antibody and Vectastain ABC-AP kit (Vector Laboratories). Vector Red substrate served as chromogen (Vector Laboratories). Sections were counterstained with hematoxylin. A. Liver section of untreated mouse; B. liver section of LPS-treated mouse sacrificed after 24 h; C. liver section of LPS-treated mouse sacrificed after 72 h.

Kato Y et al. (2005) Free Radical Biology

& Medicine 38:24-31

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

References: 1. Kato Y, Kawai Y, Morinaga H, Kondo H, Dozaki N, Kitamoto N, Osawa T. (2005). Immunogenicity of a

brominated protein and successive establishment of a monoclonal antibody to dihalogenated

tyrosine. Free Radic Biol Med 38(1): 24-31

2. Wu W, Chen Y, d'Avignon A, Hazen SL. (1999). 3-Bromotyrosine and 3,5-dibromotyrosine are major products of protein oxidation by eosinophil peroxidase: potential markers for eosinophildependent

tissue injury in vivo. Biochemistry 38(12):3538-48

Last updated on: 14 April 2022

For research use only

Publishing research using AA1014? Please let us know so that we can cite your publication as a reference.