

Data Sheet

CROTONALDEHYDE (CRA)-MODIFIED PROTEIN

ANTIBODY, MONOCLONAL

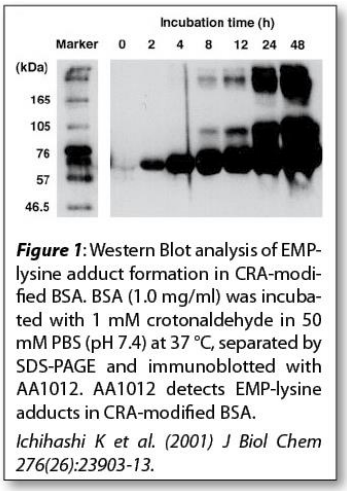

Figure 1: Western Blot analysis of EMP-lysine adduct formation in CRA-modified BSA. BSA (1.0 mg/ml) was incubated with 1 mM crotonaldehyde in 50 mM PBS (pH 7.4) at 37 °C, separated by SDS-PAGE and immunoblotted with AA1012. AA1012 detects EMP-lysine adducts in CRA-modified BSA.

Ichihashi K et al. (2001) J Biol Chem 276(26):23903-13.

Catalog no.: AA1012.1

Immunogen: Crotonaldehyde (CRA)-modified KLH

Host: Mouse Balb/c

Clone no.: 82D3

Isotype: $IgG_{2b\ (lambda)}$

Matrix: Protein A purified, 10 mM PBS, 0.1% NaN_3, 0.5% BSA

Specificity: CRA-modified protein, especially CRA-lysine adduct N^{ε}-(5-ethyl-2-methylpyridinium) [EMP] lysine

Contents: 30 µg (frozen; 100 µg/ml)

Known applications: Western Blot[1], immunohistochemistry (paraffin sections, 0.5 – 1 µg/ml)[1]

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

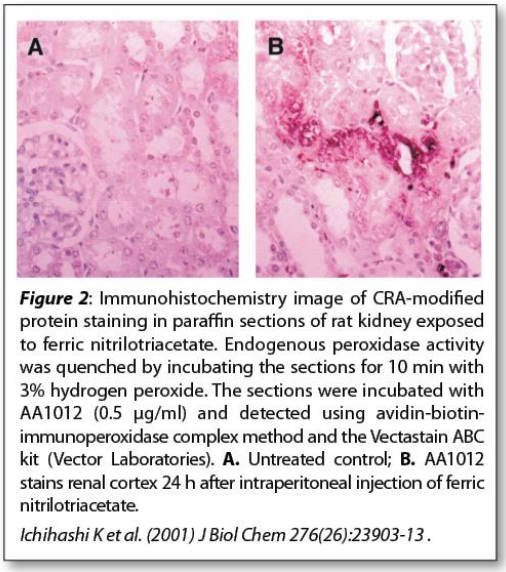

Figure 2: Immunohistochemistry image of CRA-modified protein staining in paraffin sections of rat kidney exposed to ferric nitrilotriacetate. Endogenous peroxidase activity was quenched by incubating the sections for 10 min with 3% hydrogen peroxide. The sections were incubated with AA1012 (0.5 µg/ml) and detected using avidin-biotin-immunoperoxidase complex method and the Vectastain ABC kit (Vector Laboratories). **A.** Untreated control; **B.** AA1012 stains renal cortex 24 h after intraperitoneal injection of ferric nitrilotriacetate.

Ichihashi K et al. (2001) J Biol Chem 276(26):23903-13 .

References:

1. Ichihashi K, Osawa T, Toyokuni S, Uchida K (2001). Endogenous formation of protein adducts with carcinogenic aldehydes: implications for oxidative stress. *J Biol Chem* **276**(26)**:** 23903-23913.

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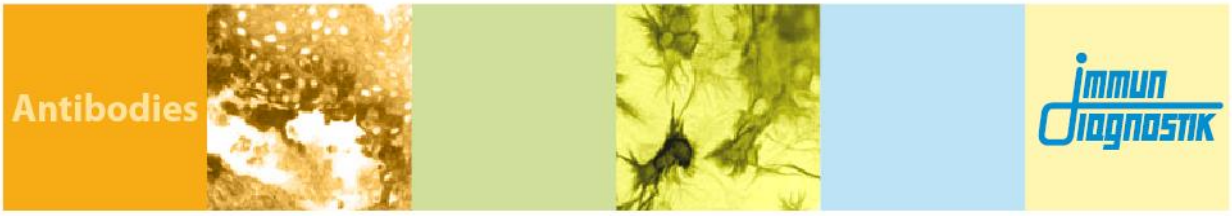

Last updated on: 11 November 2021

For research use only

Publishing research using AA1012? Please let us know so that we can cite your publication as a reference.

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