

Data Sheet

CROTONALDEHYDE (CRA)-MODIFIED PROTEIN

ANTIBODY, MONOCLONAL

Catalog no.: AA1012.1

Immunogen: Crotonaldehyde (CRA)-modified KLH

Host: Mouse Balb/c

Clone no.: 82D3

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

Matrix: Protein A purified, 10 mM PBS, 0.1% NaN₃, 0.5%

BSA

Specificity: CRA-modified protein, especially CRA-lysine adduct

Nε-(5-ethyl-2-methylpyridinium) [EMP] lysine

Contents: 30 μ g (frozen; 100 μ g/ml)

Known applications: Western Blot¹, immunohistochemistry

(paraffin sections, $0.5 - 1 \mu g/ml$)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

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.

Last updated on: 14 April 2022

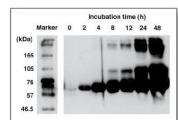


Figure 1: Western Blot analysis of EMPlysine adduct formation in CRA-modified BSA. BSA (1.0 mg/ml) was incubated with 1 mM crotonaldehyde in 50 mM PBS (pH 7.4) at 37 °C, separated by SDS-PAGE and immunoblotted with AA1012. AA1012 detects EMP-lysine adducts in CRA-modified BSA.

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

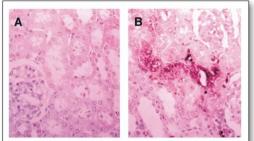


Figure 2: Immunohistochemistry image of CRA-modified protein staining in paraffin sections of rat kidney exposed to ferric nitrilotriacetate. Endogenous peroxidase activity was quenched by incubating the sections for 10 min with 3% hydrogen peroxide. The sections were incubated with AA1012 (0.5 μg/ml) 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.

For research use only

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

