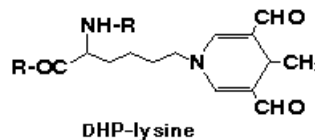
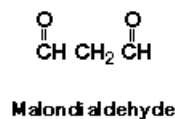


## Data Sheet

# MALONDIALDEHYDE (MDA) ANTIBODY, MONOCLONAL

<b>Catalog no.:</b>	AA1011.1
<b>Immunogen:</b>	Malondialdehyde (MDA)-modified KLH
<b>Host:</b>	Mouse
<b>Clone no.:</b>	1F83
<b>Isotype:</b>	IgG <sub>2a</sub> lambda
<b>Matrix:</b>	Protein A purified, 10 mM PBS, 0.1% NaN <sub>3</sub> , 0.5% BSA
<b>Specificity:</b>	MDA-modified proteins, especially dihydropyridine (DHP)-lysine type derivative



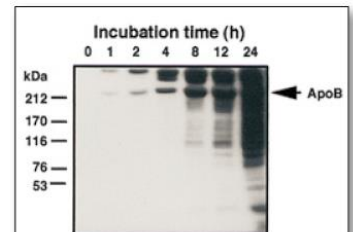
<b>Contents:</b>	30 µg (frozen; 100 µg/ml)
<b>Known applications:</b>	Western Blot (2 µg/ml) <sup>1</sup> , immunohistochemistry (paraffin sections, 0.5-1.0 µg/ml; cryosections) <sup>1</sup> , immunofluorescence <sup>2</sup>

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.

<b>Store at:</b>	- 20 °C
	Repeated thawing and freezing must be avoided

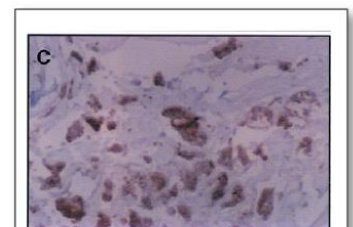
<b>References:</b>	1. Yamada S, Kumazawa S, Ishii T, Nakayama T, Itakura K, Shibata N, Kobayashi M, Sakai K, Osawa T, Uchida K (2001). Immunochemical detection of a lipofuscin-like fluorophore derived from malondialdehyde and lysine. <i>J Lipid Res</i> <b>42</b> (8): 1187-1196.
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2. Muratori, Monica, Lara Tamburrino, Sara Marchiani, Marta Cambi, Biagio Olivito, Chiara Azzari, Gianni Forti, and Elisabetta Baldi. (2015). Investigation on the Origin of Sperm DNA Fragmentation: Role of Apoptosis, Immaturity and Oxidative Stress. *Molecular Medicine* **21** (1): 109-22.



**Figure 1:** Western Blot analysis of MDA-LDL adduct formation. LDL (0.5 mg) was incubated with 1 mM MDA in 1 ml of 50 mM PBS (pH 7.2) at 37°C. LDL was separated by SDS-PAGE and immunoblotted with AA1011 (2 µg/ml). AA1011 does not react with native LDL apoB, whereas the MDA-modified LDL apoB shows intense immunoreactivity.

Yamada S et al. (2001) *J Lipid Res* **42**(8): 1187-96.

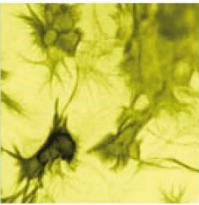
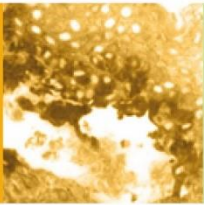


**Figure 2:** Immunohistochemistry image of dihydropyridine adduct staining in paraffin section of human atherosclerotic aorta. Endogenous peroxide activity was quenched by incubating the section for 10 min with 3% hydrogen peroxide. The section was incubated with AA1011 and detected using Vectastain ABC kit (Vector Laboratories). 3,3'-diaminobenzidine tetrahydrochloride served as the chromogen. Sections were counterstained with hematoxylin. C. AA1011 stains the cytoplasm of most foamy or spindle macrophages. Original magnification: x100.

Yamada S et al. (2001) *J Lipid Res* **42**(8): 1187-96.



Antibodies



**Last updated on:** 14 April 2022

**For research use only**

**Publishing research using AA1011? Please let us know so that we can cite your publication as a reference.**



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