

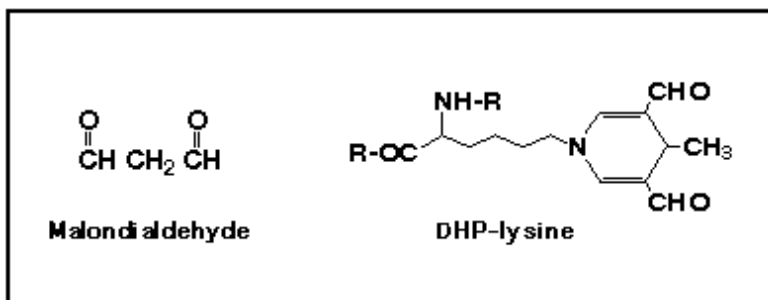


# Anti-MDA Antibody Code# NOF-N213530-EX

Ver.1

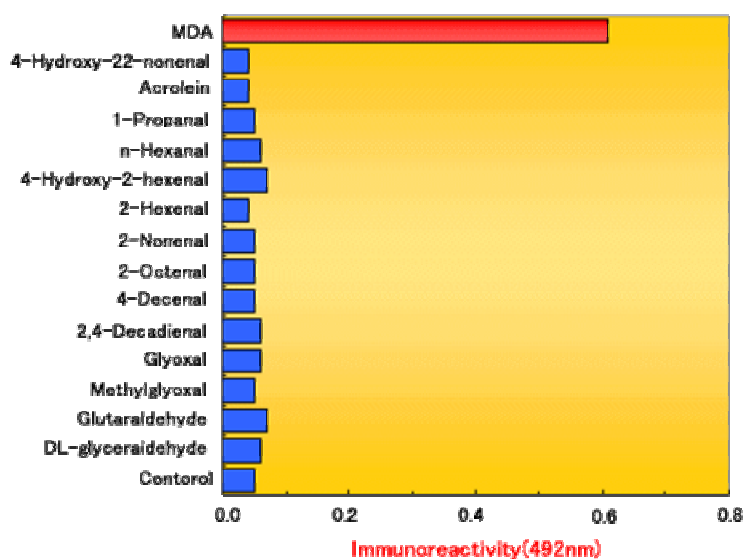
Anti-malondialdehyde monoclonal antibody

Malondialdehyde (MDA) is one of the major aldehyde derive from lipid peroxidation. MDA is highly reactive aldehyde and reacts with lysine residue in protein. The reaction with MDA and lysine residue leads to the formation of numerous numbers of adducts, such as dihydropyridine-lysine (DHP-lysine) type derivative. This antibody is specific for the MDA-modified protein, especially DHP-lysine type derivative.

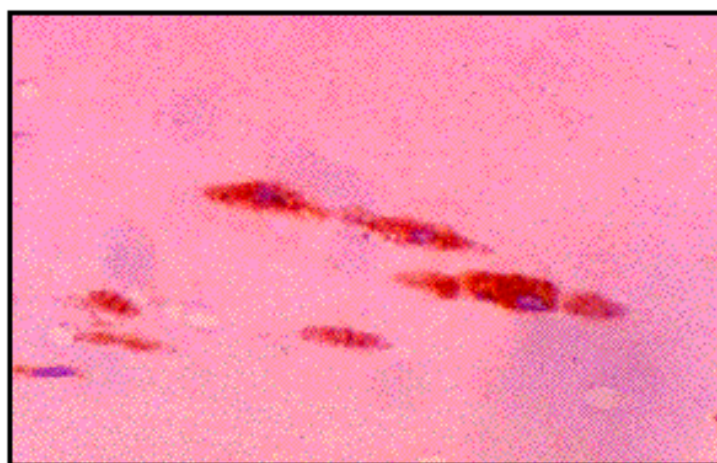


|               |                                                                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antigen       | : MDA-modified keyhole-lympet hemocyanine                                                                                                                                                                      |
| Source        | : Mouse                                                                                                                                                                                                        |
| Purify        | : Protein A                                                                                                                                                                                                    |
| Concentration | : 100 $\mu$ g/mL                                                                                                                                                                                               |
| Form          | : Frozen. (10mM PBS containing 0.1 %NaN <sub>3</sub> and 0.5% BSA)                                                                                                                                             |
| Specificity   | : Specific for MDA-modified protein (especially DHP-lysine)                                                                                                                                                    |
| Class         | : IgG                                                                                                                                                                                                          |
| Application   | : Immunohistochemistry; It is recommended that the antibody be tried at 0.5-1.0 $\mu$ g/mL on paraformaldehyde fixed tissue (Optimal working dilutions must be determined by the end user).                    |
| Storage       | : Maintain at -20° C undiluted aliquots for up to 6 months after date of receipt. For long term storage, aliquot product into individual tubes and freeze at -20 or -70° C. Avoid repeated freeze/thaw cycles. |

## Cross-reactivity of Anti-MDA antibody



▼ Immunohistochemical detection of DHP-lysine type derivative in atherosclerotic aorta.



Noriyuki Shibata et al.  
Tokyo Women's medical University

An antibody for oxidative stress evaluation

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Anti-malondialdehyde monoclonal antibody

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Related references.

1. S. Yamada *et al.*, *J. Lipid Res.*, **42**(8), pp1187-1196, 2001
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