

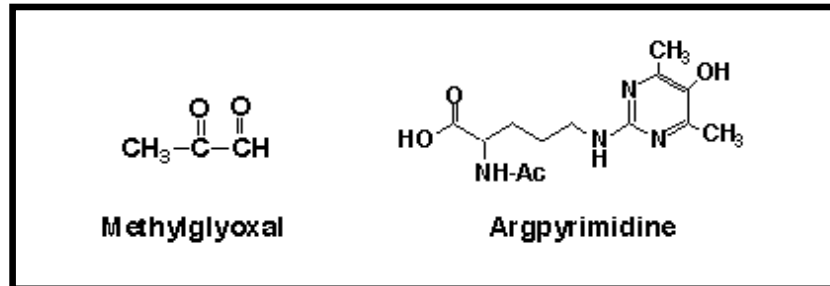


Anti-MG Antibody Code# NOF-N213430-EX

Ver.1

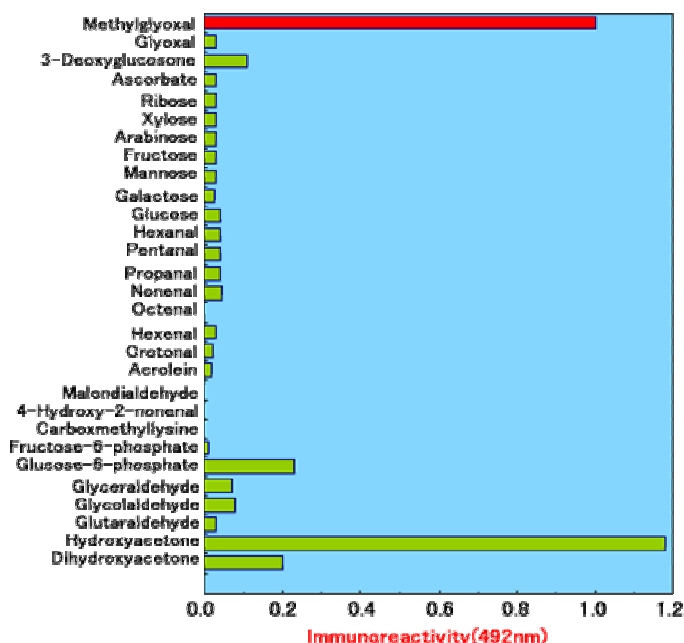
Anti-methylglyoxal monoclonal antibody

Methylglyoxal (MG), an endogenous metabolite that increases in diabetes and is a common intermediate in the Maillard reaction (glycation), reacts with proteins and forms advanced glycation end products. MG reacts with arginine residue in protein and forms numerous numbers of adducts, such as argpyrimidine. This antibody is specific for argpyrimidine.

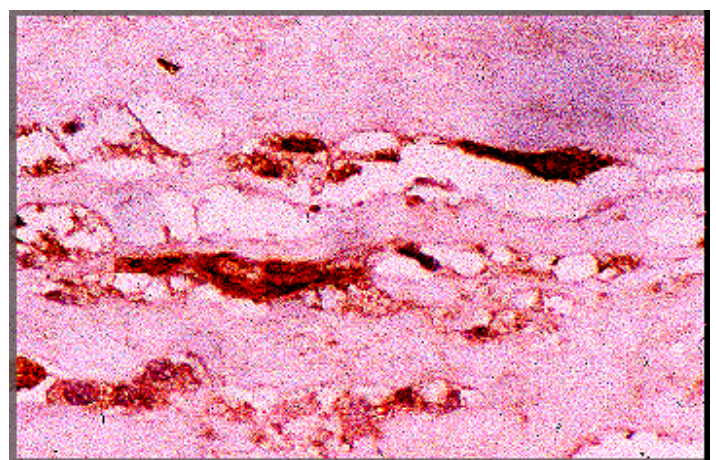


- Antigen : MG-modified keyhole-lympet hemocyanine
- Source : Mouse
- Purify : Protein A
- Concentration : 100µg/mL
- Form : Frozen. (10mM PBS containing 0.1 %NaN3 and 0.5% BSA)
- Specificity : Specific for MG-modified protein (especially Argpyrimidine)
- Class : IgG
- Application : Immunohistochemistry; It is recommended that the antibody be tried at 0.5-1.0µg/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 -80° C. Avoid repeated freeze/defrost cycles.
- Package : 30µg/vial

Cross-reactivity of Anti-MG antibody



▼ Immunohistochemical detection of MG-adducts in atherosclerotic aorta.



Noriyuki Shibata et al.
Tokyo Women's medical University

An antibody for glycation stress evaluation

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Anti-methylglyoxal monoclonal antibody

Related references.

- 1) Uchida K et al (1997) *FEBS lett.* **410**: 313-8.
- 2) Oya T et al (1999) *J Biol. Chem.* **274**: 19492-502.
- 3) Miyata T et al (1999) *Kidney Int.* **58**: 425-35.
- 4) Paddayatti PS (2001) *Invest Ophthalmol Vis Sci.* **42**: 1299-304.
- 5) Paddayatti PS (2001) *Curr Eye Res.* **23**:106-15.

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