Methylglyoxal Monoclonal Antibody | anti-MG antibody

Methylglyoxal Antibody, Clone 9E7

CATALOG #	APPLICATIONS
AAA104085	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Methylglyoxal; Monoclonal Antibody; Methylglyoxal Antibody; Clone 9E7; Mouse Anti-Methylglyoxal (MG) Monoclonal IgG2a; 2-Oxopropanal Antibody; 2 oxo propanal Antibody; MG Antibody; Pyruvaldehyde Antibody; Methylglyoxal (MG) Antibody; MG-modified protein Antibody; anti-MG antibody

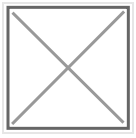
PRODUCT SPECIFICATIONS

Clonality	Monoclonal
Isotype	IgG2a
Clone Number	9E7
Specificity	Specific for methylglyoxal modified proteins. Does not detect free methylglyoxal. Does not cross-react with Acrolein, Hexanoyl Lysine, Malondialdeyhde, 4-Hydroxy-2-hexenal, 4-hydroxy nonenal, or crotonaldehyde modified proteins.
Purity/Purification	Protein G Purified
Form/Format	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MG antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Synthetic Methylglyoxal modified Keyhole Limpet Hemocyanin (KLH).
Research Areas	Cancer, Lipid peroxidation, Oxidative Stress
Preparation and Storage	Ships on blue ice. Store at -20°C. Avoid freeze/thaw cycle.

IMAGES

FCM/FACS (Flow Cytometry)
Flow Cytometry analysis using Mouse Anti-Methylglyoxal Monoclonal Antibody, Clone 9E7. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Methylglyoxal Monoclonal Antibody at 1:50 for 30 min on ice. Secondary Antibody: Goat Anti-Mouse: PE at 1:100 for 20 min at RT. Isotype Control: Non Specific IgG. Cells were subject to oxidative stress by treating with 250 uM H2O2 for 24 hours.

WB (Western Blot)
Western Blot analysis of Methylglyoxal-BSA Conjugate showing detection of 67 kDa Methylglyoxal protein using Mouse Anti-Methylglyoxal Monoclonal Antibody, Clone 9E7. Lane 1: Molecular Weight Ladder (MW). Lane 2: Methylglyoxal-BSA. Lane 3: BSA. Load: 0.5 ug. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Methylglyoxal Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 60 min at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: 67 kDa.



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Methylglyoxal Monoclonal Antibody, Clone 9E7. Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Methylglyoxal Monoclonal Antibody at 1:50 for 30-60 min at RT. Secondary Antibody: Goat Anti-Mouse Alexa Fluor 488 at 1:1500 for 30-60 min at RT. Counterstain: Phalloidin Alexa Fluor 633 F-Actin stain; DAPI (blue) nuclear stain at 1:250, 1:50000 for 30-60 min at RT. Magnification: 20X (2X Zoom). (A,C,E,G) - Untreated. (B,D,F,H) - Cells cultured overnight with 50 uM H2O2. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alex Fluor 633 F-Actin stain. (E,F) Methylglyoxal Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

ADDITIONAL INFORMATION

Product Categories/Family for anti-MG antibody	Antibodies; Cancer; Oxidative Stress; Lipid peroxidation

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/methylglyoxal-antibody-clone-9e7-flow-cytometry-immunohistochemistry-immunofluorescence-immunocytochemistry-western-blot-elisa/104085