10320 Camino Santa Fe, Suite A
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Tel: 858.875.1900 Fax: 858.875.1999

Methylglyoxal Antibody
Methylglyoxal Antibody, Clone 9F11
Catalog # ASM10345

Specification

Methylglyoxal Antibody - Product Information

Application	**WB, ICC, FC, E**
Host	**Mouse**
Isotype	**IgG1**
Clonality	**Monoclonal**
Format	**Biotin**

Description
Mouse Anti-Methylglyoxal (MG) Monoclonal IgG1

Target/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.

Other Names
Methylglyoxal Antibody, 2-Oxopropanal Antibody, 2 oxo propanal Antibody, MG Antibody, Pyruvaldehyde Antibody, Methylglyoxal (MG) Antibody, MG-modified protein Antibody

Trademark	**MOLECULAR SIGNATURE®**

Immunogen
Synthetic Methylglyoxal modified Keyhole Limpet Hemocyanin (KLH).

Purification
Protein G Purified

Storage	**-20ºC**

Storage Buffer
PBS pH 7.4, 50% glycerol, 0.9% Sodium Azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
A 1:1000 dilution of SMC-517 was sufficient for detection of Methylglyoxal in 0.5 µg of Methylglyoxal conjugated to BSA by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary Antibody.

Methylglyoxal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

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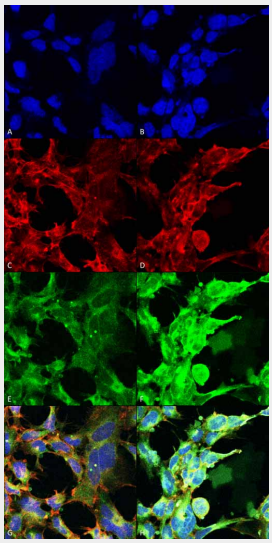
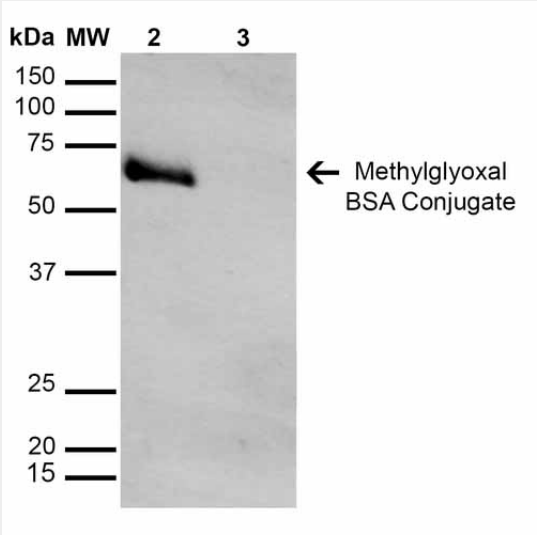
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Methylglyoxal Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Methylglyoxal Monoclonal Antibody, Clone 9F11 (ASM10345). Tissue: Embryonic kidney cells (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Methylglyoxal Monoclonal Antibody (ASM10345) 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 µM 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.



Western Blot analysis of Methylglyoxal-BSA Conjugate showing detection of 67 kDa Methylglyoxal-BSA using Mouse Anti-Methylglyoxal Monoclonal Antibody, Clone 9F11 (ASM10345). Lane 1: Molecular Weight Ladder (MW). Lane 2: Methylglyoxal-BSA. Lane 3: BSA. Load: 0.5 µg. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Methylglyoxal Monoclonal Antibody (ASM10345) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000

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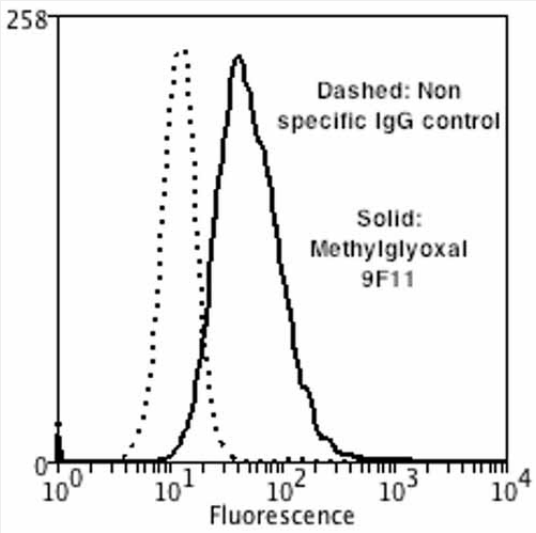
for 60 min at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: 67 kDa.



Flow Cytometry analysis using Mouse Anti-Methylglyoxal Monoclonal Antibody, Clone 9F11 (ASM10345). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Methylglyoxal Monoclonal Antibody (ASM10345) at 1:50 for 30 min on ice. Secondary Antibody: Goat Anti-Mouse: PE at 1:100 for 20 min at RT. Cells were subject to oxidative stress by treating with 250 µM H2O2 for 24 hours.