

**Malondialdehyde Antibody**  
**Malondialdehyde Antibody, Clone 6H6**  
**Catalog # ASM10342****Specification**

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**Malondialdehyde Antibody - Product Information**

|             |                       |
|-------------|-----------------------|
| Application | <b>WB, ICC, FC, E</b> |
| Host        | <b>Mouse</b>          |
| Isotype     | <b>IgG1</b>           |
| Clonality   | <b>Monoclonal</b>     |
| Format      | <b>APC</b>            |

**Description**

Mouse Anti-Malondialdehyde (MDA) Monoclonal IgG1

**Target/Specificity**

Specific for Malondialdehyde conjugated proteins. Does not detect free Malondialdehyde. Does not cross-react with Acrolein, Crotonaldehyde, Hexanoyl Lysine, 4-Hydroxy-2-hexenal, 4-Hydroxy nonenal, or Methylglyoxal modified proteins.

**Other Names**

Malondialdehyde Antibody, MDA Antibody, Malondialdehyde (MDA) Antibody, Malonic aldehyde Antibody Propanedial Antibody, 1, 3-Propanedial Antibody, Malonaldehyde Antibody

**Trademark**

**MOLECULAR SIGNATURE®**

**Immunogen**

Synthetic Malondialdehyde modified Keyhole Limpet Hemocyanin (KLH).

**Purification**

Protein G Purified

**Storage**

**-20°C**

**Storage Buffer**

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

**Shipping Temperature**

**Blue Ice or 4°C**

**Certificate of Analysis**

A 1:1000 dilution of SMC-514 was sufficient for detection of Malondialdehyde in 2 µg of Malondialdehyde conjugated to BSA by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary Antibody.

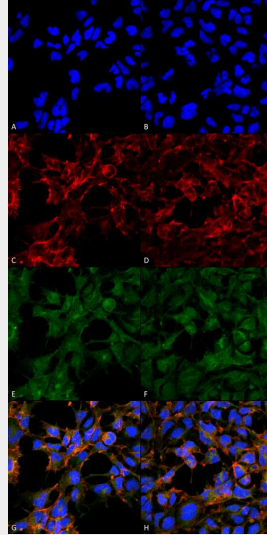
**Malondialdehyde Antibody - Protocols**

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

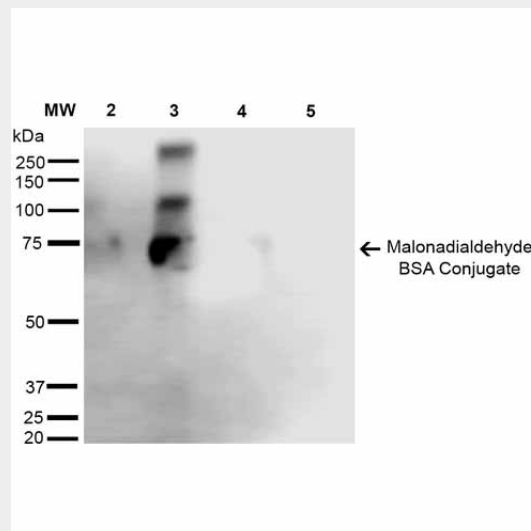
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Malondialdehyde Antibody - Images

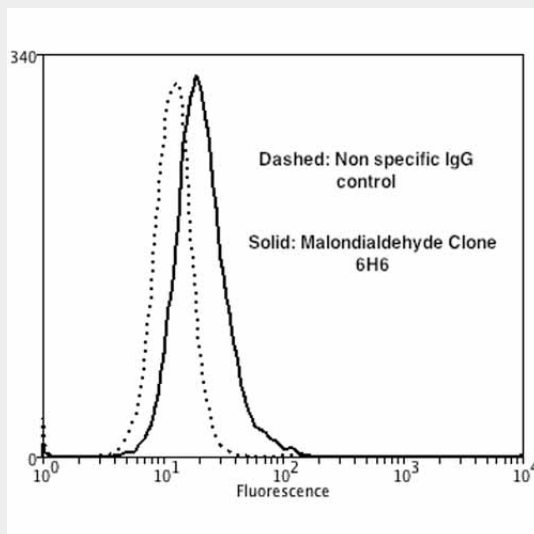


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 6H6 (ASM10342). Tissue: Embryonic kidney cells (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (ASM10342) at 1:50 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  $\mu$ M H<sub>2</sub>O<sub>2</sub>. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alex Fluor 633 F-Actin stain. (E,F) Malondialdehyde Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



Western Blot analysis of Malondialdehyde-BSA Conjugate showing detection of 67 kDa Malondialdehyde -BSA using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 6H6 (ASM10342). Lane 1: Molecular Weight Ladder (MW). Lane 2: Malondialdehyde-BSA (0.5  $\mu$ g). Lane 3: Malondialdehyde-BSA (2.0  $\mu$ g). Lane 4: BSA (0.5  $\mu$ g). Lane 5: BSA (2.0  $\mu$ g) . Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (ASM10342) at

1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 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-Malondialdehyde Monoclonal Antibody, Clone 6H6 (ASM10342). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (ASM10342) 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  $\mu$ M H<sub>2</sub>O<sub>2</sub> for 24 hours.