

4-Hydroxy-2-hexenal Antibody
4-Hydroxy-2-hexenal Antibody, Clone 6F10
Catalog # ASM10338

Specification

4-Hydroxy-2-hexenal Antibody - Product Information

Application	WB, ICC, E
Host	Mouse
Isotype	IgG2b
Clonality	Monoclonal

Description

Mouse Anti-4-Hydroxy-2-hexenal (4-HHE) Monoclonal IgG2b

Target/Specificity

Specific for 4-Hydroxy-2-hexenal (4-HHE) and 4-Hydroxynonenal (4-HNE) modified proteins. Does not detect free 4-Hydroxy-2-hexenal (4-HHE) or 4-Hydroxynonenal (4-HNE). Does not cross-react with Acrolein, Crotonaldehyde, Hexanoyl Lysine, Malondialdehyde, or Methylglyoxal modified proteins.

Other Names

4-Hydroxy-2-hexenal (4-HHE) Antibody, 4-Hydroxy-2-hexenal Antibody, 4-HHE Antibody, MG Antibody, MG-modified protein Antibody, 4-Hydroxy-2-hexenal-modified , 4-Hydroxy-2-hexenal Antibody, 4-hydroxy Hexenal Antibody, HHE Antibody, 4-HHE Antibody

Trademark **MOLECULAR SIGNATURE®**

Immunogen

Synthetic 4-Hydroxy-2-hexenal 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-510 was sufficient for detection of 4-Hydroxy-2-hexenal in 0.5 µg of 4-Hydroxy-2-hexenal conjugated to BSA and 4-Hydroxy nonenal conjugated to BSA by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary Antibody.

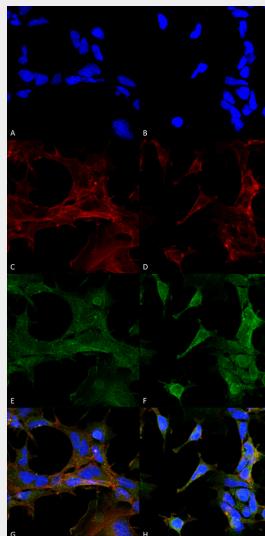
4-Hydroxy-2-hexenal Antibody - Protocols

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

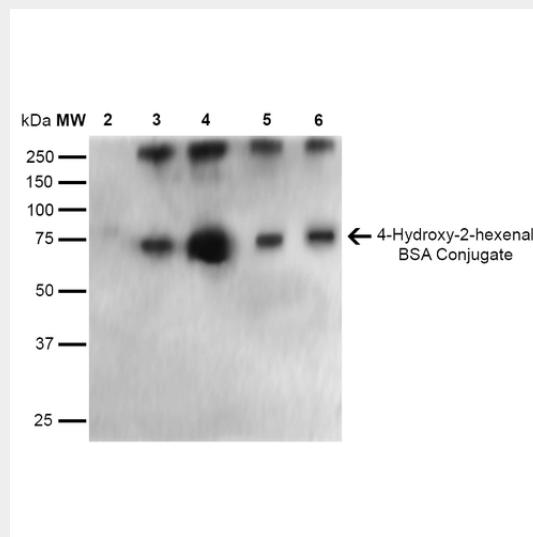
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

4-Hydroxy-2-hexenal Antibody - Images

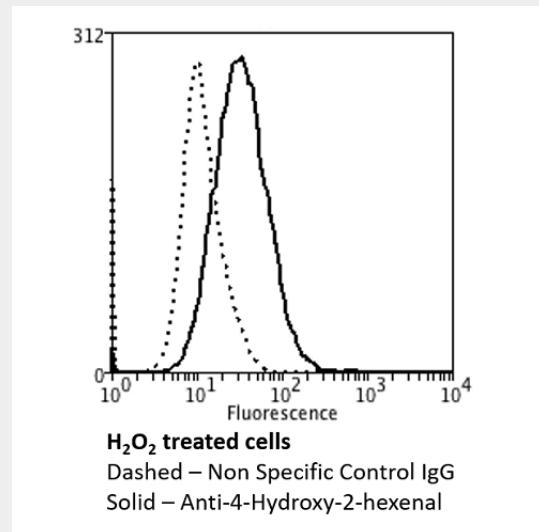


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-4-Hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10 (ASM10338). Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-4-Hydroxy-2-hexenal Monoclonal Antibody (ASM10338) at 1:400 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 μ M H₂O₂. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alexa Fluor 633 F-Actin stain. (E,F) 4-Hydroxy-2-hexenal Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



Western Blot analysis of 4-hydroxy-2-hexenal-BSA Conjugate showing detection of 67 kDa 4-hydroxy-2-hexenal protein using Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10 (ASM10338). Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA (0.5 μ g). Lane 3:

4-hydroxyl nonenal-BSA (0.5 μ g). Lane 4: 4-hydroxy nonenal-BSA (2.0 μ g). Lane 5: 4-hydroxy-2-hexenal (0.5 μ g). Lane 6: 4-hydroxy-2-hexenal (2.0 μ g). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody (ASM10338) 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-4-hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10 (ASM10338). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody (ASM10338) 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 μ M H₂O₂ for 24 hours.