Mouse 4-Hydroxy-2-hexenal Monoclonal Antibody | anti-4-HHE antibody

4-Hydroxy-2-hexenal Antibody, Clone 6F10: PerCP

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA104038	**Mouse**	**Species Independent**	**Flow Cytometry, Functional Assay, ELISA, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

4-Hydroxy-2-hexenal; Monoclonal Antibody; 4-Hydroxy-2-hexenal Antibody; Clone 6F10: PerCP; Mouse Anti-4-Hydroxy-2-hexenal (4-HHE) Monoclonal IgG2b; 4-Hydroxy-2-hexenal Antibody: PerCP; 4-Hydroxy-2-hexenal (4-HHE) Antibody; 4-HHE Antibody; MG Antibody; MG-modified protein Antibody; 4-Hydroxy-2-hexenal-modified; 4-hydroxy Hexenal Antibody; HHE Antibody; anti-4-HHE antibody

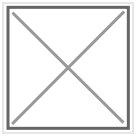
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Species Independent
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	6F10
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.
Purity/Purification	Protein G Purified
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-4-HHE antibody	FCM/FACS (Flow Cytometry), ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Target	4-Hydroxy-2-hexenal
Immunogen	Synthetic 4-Hydroxy-2-hexenal modified Keyhole Limpet Hemocyanin (KLH).
Conjugate	PerCP
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Preparation and Storage	Store at -20 degree C.

IMAGES

FCM/FACS (Flow Cytometry)
Flow Cytometry analysis using Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-4-hydroxy-2-hexenal 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 4-hydroxy-2-hexanal-BSA Conjugate showing detection of 67 kDa 4-hydroxy-2-hexenal protein using Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10. Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA (0.5 ug). Lane 3: 4-hydroxyl nonenal-BSA (0.5 ug). Lane 4: 4-hydroxy nonenal-BSA (2.0 ug). Lane 5: 4-hydroxy-2-hexenal (0.5 ug). Lane 6: 4-hydroxy-2-hexenal (2.0 ug). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody 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.



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-4-Hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10. 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 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 uM H2O2. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alex Fluor 633 F-Actin stain. (E,F) 4-Hydroxy-2-hexenal Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

ADDITIONAL INFORMATION

Product Categories/Family for anti-4-HHE 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/4-hydroxy-2-hexenal-antibody-clone-6f10-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/104038