

Mouse 4-Hydroxynonenal Monoclonal Antibody | anti-4-HNE antibody

4-Hydroxynonenal Antibody, Clone 12F7: RPE

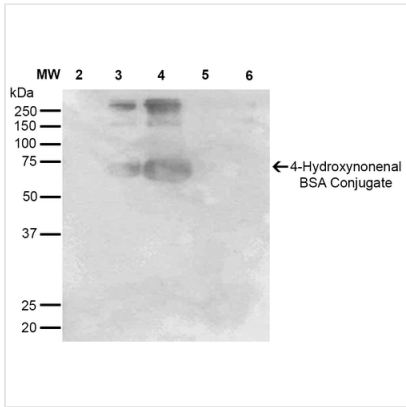
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA104048	Mouse	Species Independent	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

4-Hydroxynonenal; Monoclonal Antibody; 4-Hydroxynonenal Antibody; Clone 12F7: RPE; Mouse Anti-4-Hydroxynonenal (4-HNE) Monoclonal IgG1; 4-Hydroxynonenal Antibody: RPE; 4-Hydroxy Nonenal (4-HNE) Antibody; 4-Hydroxy Nonenal Antibody; 4-HNE Antibody; 4-hydroxy Hexenal Antibody; HNE Antibody; 4-hydroxy-2-nonenal Antibody; anti-4-HNE antibody

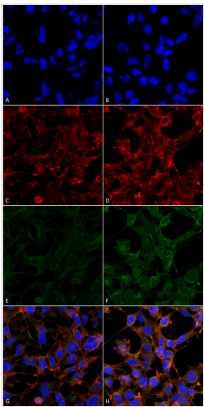
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Species Independent
Clonality	Monoclonal
Isotype	IgG1
Clone Number	12F7
Specificity	Specific for 4-Hydroxynonenal (4-HNE) modified proteins. Does not detect free 4-Hydroxynonenal. Does not cross-react with 4-Hydroxy-2-hexenal, 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-HNE antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Target	4-Hydroxynonenal
Immunogen	Synthetic 4-Hydroxynonenal modified Keyhole Limpet Hemocyanin (KLH).
Conjugate	RPE
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Preparation and Storage	Store at -20 degree C.



WB (Western Blot)

Western Blot analysis of 4-hydroxy-nonenal-BSA Conjugate showing detection of 67 kDa 4-hydroxy-nonenal protein using Mouse Anti-4-hydroxy-nonenal Monoclonal Antibody, Clone 12F7. 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-nonenal 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-Hydroxynonenal Monoclonal Antibody, Clone 12F7. Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-4-Hydroxynonenal 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) 4-Hydroxynonenal Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

ADDITIONAL INFORMATION

Product Categories/Family for anti-4-HNE 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-hydroxynonenal-antibody-clone-12f7-immunofluorescence-immunocytochemistry-western-blot-elisa/104048>