

Product Datasheet

4-Hydroxy-2-hexenal Antibody (6F10) - BSA Free NBP2-59352

Unit Size: 100 ug

Store at -20C.

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NBP2-59352**4-Hydroxy-2-hexenal Antibody (6F10) - BSA Free**

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20C.
Clonality	Monoclonal
Clone	6F10
Preservative	0.09% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol

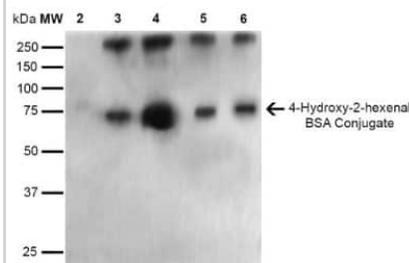
Product Description	
Description	Novus Biologicals Mouse 4-Hydroxy-2-hexenal Antibody (6F10) - BSA Free (NBP2-59352) is a monoclonal antibody validated for use in WB, ELISA, Flow and ICC/IF. Anti-4-Hydroxy-2-hexenal Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Species	Non-species specific
Specificity/Sensitivity	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.
Immunogen	Synthetic 4-Hydroxy-2-hexenal modified Keyhole Limpet Hemocyanin (KLH).

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:50, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:50

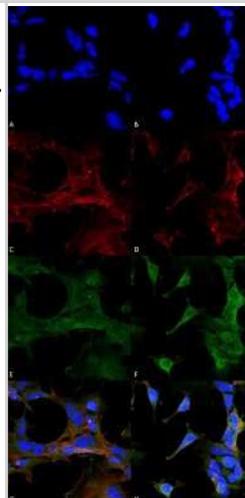


Images

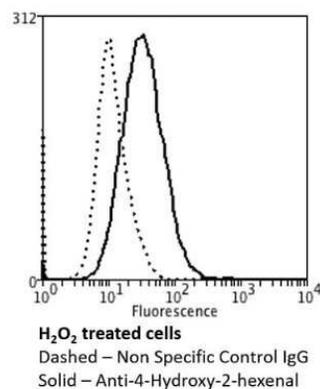
Western Blot: 4-Hydroxy-2-hexenal Antibody (6F10) [NBP2-59352] -
 Western Blot analysis of 4-hydroxy-2-hexenal-BSA Conjugate showing detection of 67 kDa 4-hydroxy-2-hexenal protein using Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10 (NBP2-59352). Lane 1: Molecular Weight Ladder (MW). 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 (NBP2-59352) 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.



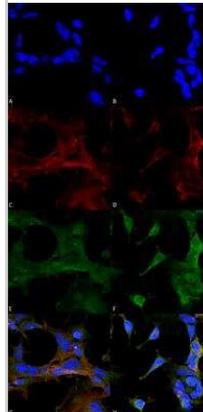
Immunocytochemistry/Immunofluorescence: 4-Hydroxy-2-hexenal Antibody (6F10) [NBP2-59352] -
 Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-4-Hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10 (NBP2-59352). Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-4-Hydroxy-2-hexenal Monoclonal Antibody (NBP2-59352) 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 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.



Flow Cytometry: 4-Hydroxy-2-hexenal Antibody (6F10) [NBP2-59352] -
 Flow Cytometry analysis using Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody, Clone 6F10 (NBP2-59352). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-4-hydroxy-2-hexenal Monoclonal Antibody (NBP2-59352) 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 M H₂O₂ for 24 hours.



Immunocytochemistry/Immunofluorescence: 4-Hydroxy-2-hexenal Antibody (6F10) [NBP2-59352] - Tissue: Embryonic kidney cells (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.



Publications

Dierge E, Debock E, Guilbaud C et al. Peroxidation of n-3 and n-6 polyunsaturated fatty acids in the acidic tumor environment leads to ferroptosis-mediated anticancer effects Cell metabolism 2021-06-08 [PMID: 34118189]





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Products Related to NBP2-59352

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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