

Product Datasheet

4-Hydroxynonenal Antibody (12F7)

NBP2-59353

Unit Size: 100 ug

Store at -20C.

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Publications: 2

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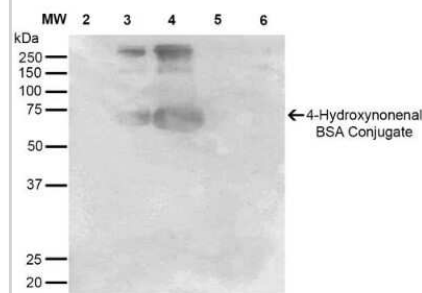
NBP2-59353**4-Hydroxynonenal Antibody (12F7)**

Product Information	
Unit Size	100 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C.
Clonality	Monoclonal
Clone	12F7
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Host	Mouse
Species	Non-species specific
Specificity/Sensitivity	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.
Immunogen	Synthetic 4-Hydroxynonenal modified Keyhole Limpet Hemocyanin (KLH)
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000, Immunocytochemistry/Immunofluorescence 1:50

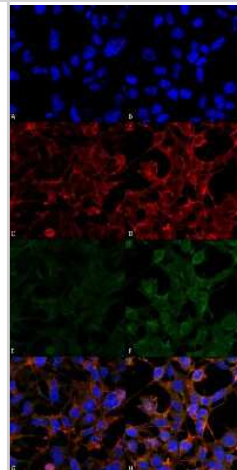


Images

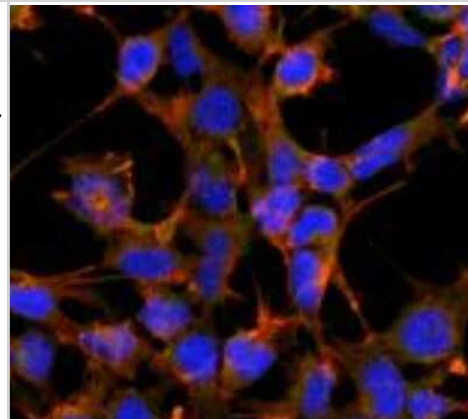
Western Blot: 4-Hydroxynonenal Antibody (12F7) [NBP2-59353] - Western Blot analysis of 4-hydroxy-nonenal-BSA Conjugate showing detection of 67 kDa 4-hydroxy-nonenal protein using Mouse Anti-4-hydroxy-nonenal Monoclonal Antibody, Clone 12F7 (NBP2-59353). Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA (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 (NBP2-59353) 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-Hydroxynonenal Antibody (12F7) [NBP2-59353] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-4-Hydroxynonenal Monoclonal Antibody, Clone 12F7 (NBP2-59353). Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-4-Hydroxynonenal Monoclonal Antibody (NBP2-59353) 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 M H₂O₂. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alexa Fluor 633 F-Actin stain. (E,F) 4-Hydroxynonenal Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



Immunocytochemistry/Immunofluorescence: 4-Hydroxynonenal Antibody (12F7) [NBP2-59353] - Tissue: Embryonic kidney cells (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). Courtesy of: Dr. Robert Burke, University of Victoria.



Publications

Song SH, Han D, Park K et al. Bone morphogenetic protein-7 attenuates pancreatic damage under diabetic conditions and prevents progression to diabetic nephropathy via inhibition of ferroptosis *Frontiers in endocrinology* 2023-05-24 [PMID: 37293506] (IHC-P, Mouse)

Liu CQ, Liu XY, Ouyang PW et al. Ferrostatin-1 attenuates pathological angiogenesis in oxygen-induced retinopathy via inhibition of ferroptosis *Experimental eye research* 2022-12-09 [PMID: 36502924] (IF/IHC, WB, Mouse)



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Products Related to NBP2-59353

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-66364	Universal 4-Hydroxynonenal ELISA Kit (Colorimetric)

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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