

Product Datasheet

Acrolein Antibody (10A10) - BSA Free NBP2-59359

Unit Size: 100 ug

Store at -20C.

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Publications: 2

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NBP2-59359

Acrolein Antibody (10A10) - BSA Free

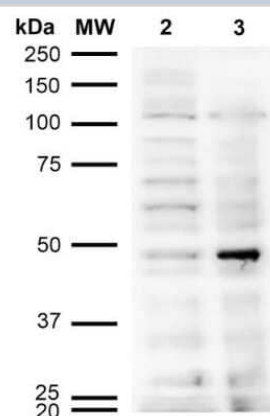
Product Information	
Unit Size	100 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C.
Clonality	Monoclonal
Clone	10A10
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol

Product Description	
Description	Novus Biologicals Mouse Acrolein Antibody (10A10) - BSA Free (NBP2-59359) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-Acrolein Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Species	Non-species specific
Specificity/Sensitivity	Specific for Acrolein modified proteins. Does not detect free acrolein. Does not cross-react with Crotonaldehyde, Hexanoyl Lysine, 4-Hydroxy-2-hexenal, 4-Hydroxy nonenal, Malondialdehyde, or Methylglyoxal modified proteins.
Immunogen	Synthetic Acrolein modified Keyhole Limpet Hemocyanin (KLH).

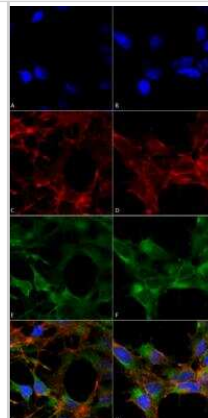
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:50, ELISA 1:1000, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:50

Images

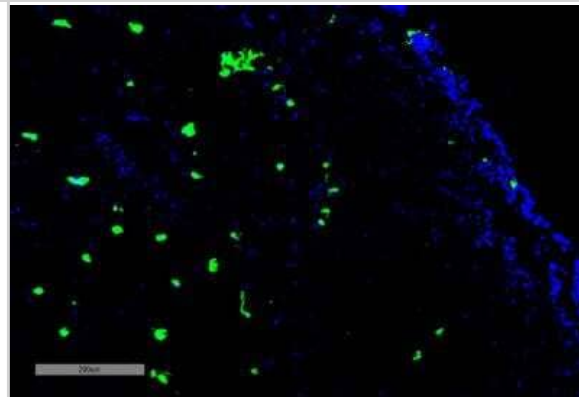
Western Blot: Acrolein Antibody (10A10) [NBP2-59359] - Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Acrolein protein using Mouse Anti-Acrolein Monoclonal Antibody, Clone 10A10 (NBP2-59359). Lane 1: Molecular Weight Ladder (MW). Lane 2: HeLa cell lysate. Lane 3: H₂O₂ treated HeLa cell lysate. Load: 12 ug. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Acrolein Monoclonal Antibody (NBP2-59359) 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.



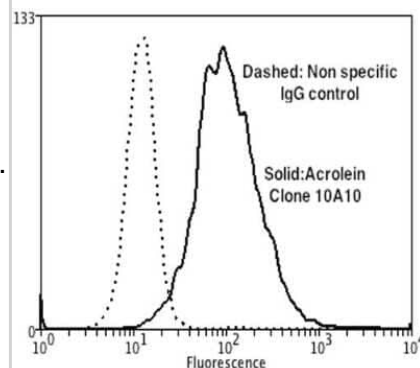
Immunocytochemistry/Immunofluorescence: Acrolein Antibody (10A10) [NBP2-59359] - Tissue: Embryonic kidney cells (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Acrolein Monoclonal Antibody at 1:50 for 30-60 min at RT. Secondary Antibody: Goat Anti-Mouse Alexa 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 μ M H₂O₂. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alex Fluor 633 F-Actin stain. (E,F) Acrolein Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



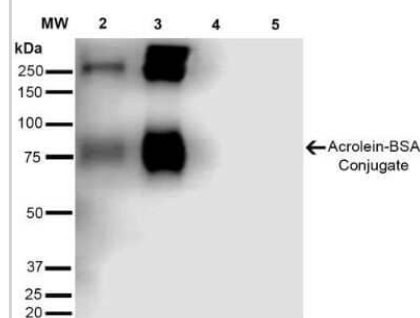
Immunohistochemistry: Acrolein Antibody (10A10) [NBP2-59359] - Immunohistochemistry analysis using Mouse Anti-Acrolein Monoclonal Antibody, Clone 10A10. Tissue: Adrenal Carcinoma. Species: Human. Primary Antibody: Mouse Anti-Acrolein Monoclonal Antibody at 1:100 for Overnight at 4C, then 30 min at 37C. Secondary Antibody: Goat Anti-Mouse IgG (H+L): FITC for 45 min at 37C. Counterstain: DAPI for 3 min at RT. Magnification: 5X.



Flow Cytometry: Acrolein Antibody (10A10) [NBP2-59359] - Flow Cytometry analysis using Mouse Anti-Acrolein Monoclonal Antibody, Clone 10A10 (NBP2-59359). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Acrolein Monoclonal Antibody (NBP2-59359) 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.



Western Blot: Acrolein Antibody (10A10) [NBP2-59359] - Western Blot analysis of Acrolein-BSA Conjugate showing detection of 67 kDa Acrolein protein using Mouse Anti-Acrolein Monoclonal Antibody, Clone 10A10 (NBP2-59359). Lane 1: Molecular Weight Ladder (MW). Lane 2: AcroleinBSA (0.5 μ g). Lane 3: AcroleinBSA (2.0 μ g). Lane 4: BSA (0.5 μ g). Lane 5: BSA (2.0 μ g). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Acrolein Monoclonal Antibody (NBP2-59359) 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.



Publications

Badiei A, Beltran WA, Aguirre GD Altered transsulfuration pathway enzymes and redox homeostasis in inherited retinal degenerative diseases Experimental eye research 2021-12-23 [PMID: 34954206] (WB)

Spaas J, Franssen WMA, Keytsman C Et al. Carnosine quenches the reactive carbonyl acrolein in the central nervous system and attenuates autoimmune neuroinflammation Journal of neuroinflammation 2021-11-05 [PMID: 34740381] (WB, IHC-Fr, Mouse, Human)





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Products Related to NBP2-59359

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)

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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