

# Product Datasheet

## Malondialdehyde Antibody (11E3) NBP2-59367

Unit Size: 100 ug

Store at -20C.

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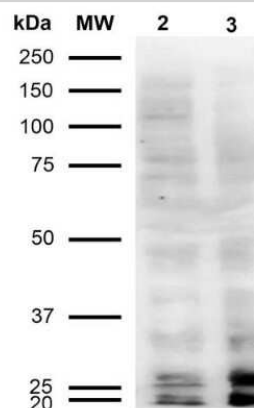
**NBP2-59367****Malondialdehyde Antibody (11E3)**

| <b>Product Information</b>         |                                                                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Size</b>                   | 100 ug                                                                                                                                                                                                                                   |
| <b>Concentration</b>               | Please see the vial label for concentration. If unlisted please contact technical services.                                                                                                                                              |
| <b>Storage</b>                     | Store at -20C.                                                                                                                                                                                                                           |
| <b>Clonality</b>                   | Monoclonal                                                                                                                                                                                                                               |
| <b>Clone</b>                       | 11E3                                                                                                                                                                                                                                     |
| <b>Preservative</b>                | 0.09% Sodium Azide                                                                                                                                                                                                                       |
| <b>Isotype</b>                     | IgG1                                                                                                                                                                                                                                     |
| <b>Purity</b>                      | Protein G purified                                                                                                                                                                                                                       |
| <b>Buffer</b>                      | PBS (pH 7.4), 50% Glycerol                                                                                                                                                                                                               |
| <b>Product Description</b>         |                                                                                                                                                                                                                                          |
| <b>Host</b>                        | Mouse                                                                                                                                                                                                                                    |
| <b>Species</b>                     | Non-species specific                                                                                                                                                                                                                     |
| <b>Specificity/Sensitivity</b>     | Specific for Malondialdehyde conjugated proteins. Does not detect free Malondialdehyde. Does not cross-react with Acrolein, Crotonaldehyde, Hexanoyl Lysine, 4-Hydroxy-2-hexenal, 4-Hydroxy nonenal, or Methylglyoxal modified proteins. |
| <b>Immunogen</b>                   | Synthetic Malondialdehyde modified Keyhole Limpet Hemocyanin (KLH).                                                                                                                                                                      |
| <b>Product Application Details</b> |                                                                                                                                                                                                                                          |
| <b>Applications</b>                | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry                                                                                                                                                       |
| <b>Recommended Dilutions</b>       | Western Blot 1:1000, ELISA 1:1000, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:50                                                                                                                              |

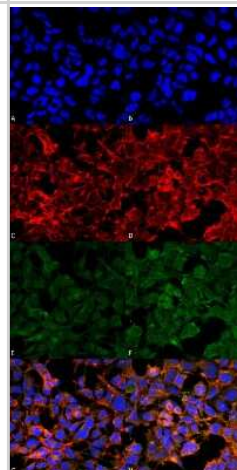


## Images

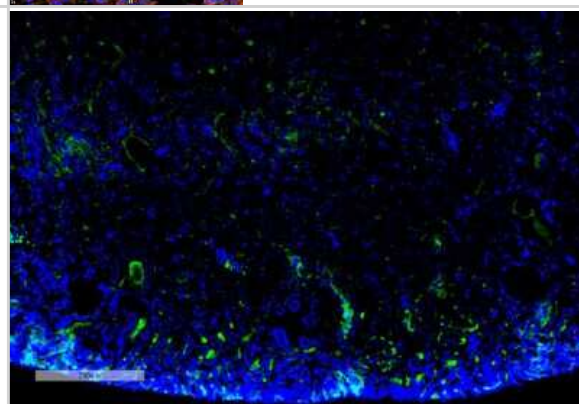
**Western Blot: Malondialdehyde Antibody (11E3) [NBP2-59367]** - Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Malondialdehyde protein using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3 (NBP2-59367). Lane 1: Molecular Weight Ladder (MW). Lane 2: HeLa cell lysate. Lane 3: H<sub>2</sub>O<sub>2</sub> treated HeLa cell lysate. Load: 12 ug. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (NBP2-59367) 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.



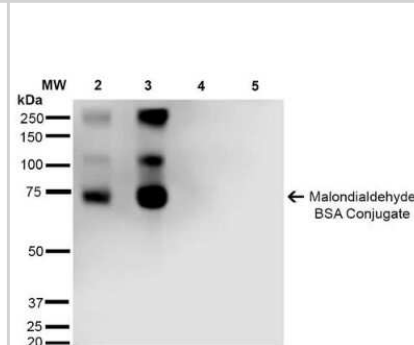
**Immunocytochemistry/Immunofluorescence: Malondialdehyde Antibody (11E3) [NBP2-59367]** - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3 (NBP2-59367). Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (NBP2-59367) 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 H<sub>2</sub>O<sub>2</sub>. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alexa Fluor 633 F-Actin stain. (E,F) Malondialdehyde Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



**Immunohistochemistry: Malondialdehyde Antibody (11E3) [NBP2-59367]** - Immunohistochemistry analysis using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3 (NBP2-59367). Tissue: Kidney. Species: Mouse. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (NBP2-59367) 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: 10X.



**Western Blot: Malondialdehyde Antibody (11E3) [NBP2-59367]** - Western Blot analysis of Malondialdehyde-BSA Conjugate showing detection of 67 kDa Malondialdehyde protein using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3 (NBP2-59367). Lane 1: Molecular Weight Ladder (MW). Lane 2: Malondialdehyde-BSA (0.5 ug). Lane 3: Malondialdehyde-BSA (2.0 ug). Lane 4: BSA (0.5 ug). Lane 5: BSA (2.0 ug). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (NBP2-59367) 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

Belinda J Hernandez, Nikolai P Skiba, Karolina Plössl, Madison Strain, Yutao Liu, Daniel Grigsby, Una Kelly, Martha A Cady, Vikram Manocha, Arvydas Maminishkis, TeddiJo Watkins, Sheldon S Miller, Allison Ashley-Koch, W Daniel Stamer, Bernhard H F Weber, Catherine Bowes Rickman, Mikael Klingeborn Polarized Desmosome and Hemidesmosome Shedding via Small Extracellular Vesicles is an Early Indicator of Outer Blood-Retina Barrier Dysfunction. *Journal of extracellular biology* 2023-10-01 [PMID: 38108061]

Focken J, Scheurer J, Jäger A et al. Neutrophil extracellular traps enhance *S. aureus* skin colonization by oxidative stress induction and downregulation of epidermal barrier genes *Cell reports* 2023-09-19 [PMID: 37733587] (IHC, Mouse)

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)





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### **Products Related to NBP2-59367**

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|                  |                                                         |
|------------------|---------------------------------------------------------|
| 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)                        |
| NBP3-24516       | Malondialdehyde Assay Kit (Colorimetric)                |

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### **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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