

Mouse anti-All Malondialdehyde Monoclonal Antibody | anti-MDA antibody

Malondialdehyde Antibody, Clone 11E3

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA104076	Mouse	All	Immunohistochemistry, ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

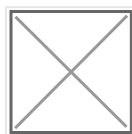
PRODUCT SYNONYMS

Malondialdehyde; Monoclonal Antibody; Malondialdehyde Antibody; Clone 11E3; Mouse Anti-Malondialdehyde (MDA) Monoclonal IgG1; MDA Antibody; Malondialdehyde (MDA) Antibody; Malonic aldehyde Antibody Propanedial Antibody; 1; 3-Propanedial Antibody; Malonaldehyde Antibody; anti-MDA antibody

PRODUCT SPECIFICATIONS

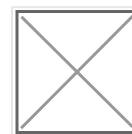
Host	Mouse
Reactivity	All
Clonality	Monoclonal
Isotype	IgG1
Clone Number	11E3
Specificity	Specific for Malondialdehyde conjugated proteins. Does not detect free Malondialdehyde. Does not cross-react with Acrolein, Crotonaldehyde, Hexanoyl Lysine, 4-Hydroxy-2-hexenal, 4-Hydroxy nonenal, or Methylglyoxal modified proteins.
Purity/Purification	Protein G Purified
Form/Format	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-MDA antibody	IHC (Immunohistochemistry), ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Synthetic Malondialdehyde modified Keyhole Limpet Hemocyanin (KLH).
Research Area(s)	Cancer; Oxidative Stress; Lipid peroxidation; Neuroscience ; Neurodegeneration; Alzheimers's Disease
Preparation and Storage	Store at -20°C+ Avoid freeze/ thaw cycle.

IMAGES



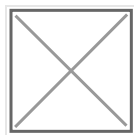
WB (Western Blot)

Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Malondialdehyde protein using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3. 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-Malondialdehyde 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.



WB (Western Blot)

Western Blot analysis of Malondialdehyde-BSA Conjugate showing detection of 67 kDa Malondialdehyde protein using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3. 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 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-Malondialdehyde Monoclonal Antibody, Clone 11E3. Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Malondialdehyde 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) Malondialdehyde Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

ADDITIONAL INFORMATION

Related Product Information for anti-MDA antibody	Malondialdehyde (MDA) is the biomarker in greatest test use, due to its molecular stability. This three-carbon, low-molecular weight aldehyde has a strong affinity for amino acids, which results in adduct formation to both free amino acids and proteins. Increased MDA levels have been found at correlating levels in breast cancer, and lung cancer patients. Other diseased states with elevated MDA levels include diabetes and Alzheimer's disease. Multiple laboratory techniques exist for quantification of MDA levels, including the thiobarbituric acid reactive substances (TBARS) assay. In addition to use as a biomarker, MDA has been shown to have mutagenic effects on tissues themselves as adduct formation can result in DNA cross-linking.
Product Categories/Family for anti-MDA antibody	Antibodies ; Cancer ; Oxidative Stress ; Lipid peroxidation ; Neuroscience ; Neurodegeneration ; Alzheimer's Disease

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/malondialdehyde-antibody-clone-11e3-immunohistochemistry-immunofluorescence-immunocytochemistry-western-blot-elisa/104076>