Datasheet for ABIN5067361

anti-Malondialdehyde antibody

4 Images

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Overview

Quantity:	100 µg
Target:	Malondialdehyde (MDA)
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic Malondialdehyde modified Keyhole Limpet Hemocyanin (KLH).
Clone:	11E3
Isotype:	IgG1
Specificity:	Specific for MDA conjugated proteins. Does not detect free MDA. Does not cross-react with Acrolein, Crotonaldehyde, Hexanoyl Lysine, 4-HHE, 4-HNE, or Methylglyoxal modified proteins.
Purification:	Protein G Purified

Target Details

Target:	Malondialdehyde (MDA)
Alternative Name:	Malondialdehyde (MDA Products)
Target Type:	Chemical

Target Details

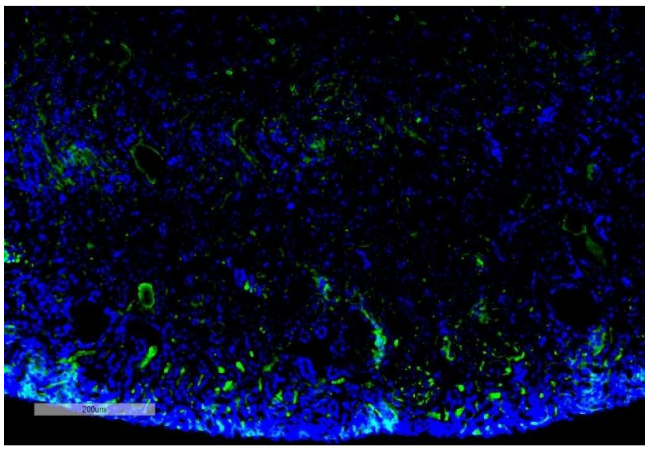
Background:	Malondialdehyde (MDA) is the biomarker in greatest diagnostic use, due to its molecular stability. This three-carbon, low-molecular weight aldehyde has a strong affinity for amino acids, which results in adduct formation to both free amino acids and proteins. Increased MDA levels have been 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.

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:50) • ELISA (1:1000) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5067361 was sufficient for detection of Malondialdehyde in 2 µg of Malondialdehyde conjugated to BSA by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary Antibody.
Restrictions:	For Research Use only

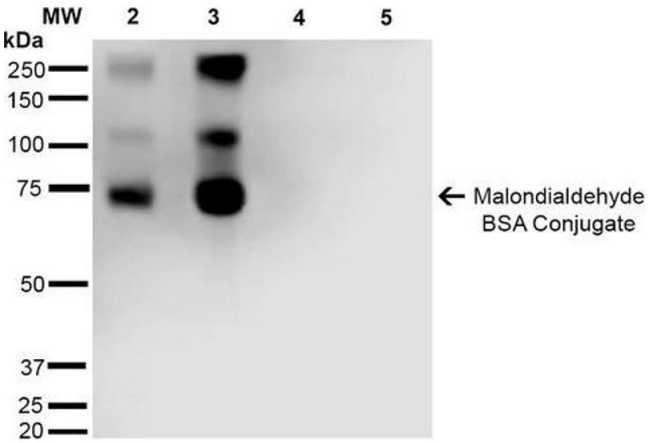
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % Sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C



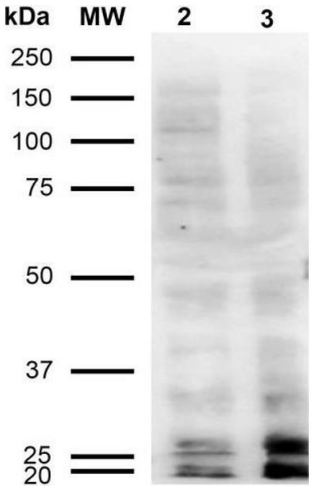
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3 (ABIN5067361). Tissue: Kidney. Species: Mouse. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (ABIN5067361) 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 Blotting

Image 2. Western Blot analysis of Malondialdehyde-BSA Conjugate showing detection of 67 kDa Malondialdehyde -BSA using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 11E3 . Lane 1: Molecular Weight Ladder (MW). Lane 2: Malondialdehyde-BSA (0.5 µg). Lane 3: Malondialdehyde-BSA (2.0 µg). Lane 4: BSA (0.5 µg). Lane 5: BSA (2.0 µg) . 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.



Western Blotting

Image 3. Western Blot analysis of Human Cervical Cancer cell line (HeLa) showing detection of Malondialdehyde -BSA 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 µg. 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.

Images

Please check the product details page for more images. Overall 4 images are available for ABIN5067361.