Mouse Acrolein Monoclonal Antibody

Acrolein Antibody, Clone 10A10: ATTO 488

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA104006	**Mouse**	**Species Independent**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

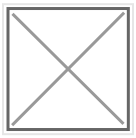
PRODUCT SYNONYMS

Acrolein; Monoclonal Antibody; Acrolein Antibody; Clone 10A10: ATTO 488; Mouse Anti-Acrolein conjugated protein Monoclonal IgG1; Acrolein Antibody: ATTO 488; Acrolein modified protein Antibody; Acrolein conjugated protein Antibody; 2-Propen-1-one Antibody; 2-propenal Antibody; Acraldehyde Antibody; Acrylic aldehyde Antibody; Protein-bound Acrolein Antibody; anti-Acrolein antibody

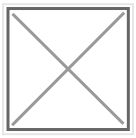
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Species Independent
Clonality	Monoclonal
Isotype	IgG1
Clone Number	10A10
Specificity	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.
Purity/Purification	Protein G Purified
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-Acrolein antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Target	Acrolein
Immunogen	Synthetic Acrolein modified Keyhole Limpet Hemocyanin (KLH).
Conjugate	ATTO 488
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Preparation and Storage	Store at -20 degree C.

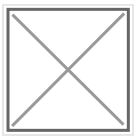
IMAGES



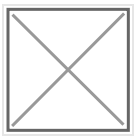
WB (Western Blot)
Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Acrolein protein using Mouse Anti-Acrolein Monoclonal Antibody, Clone 10A10. Lane 1: Molecular Weight Ladder (MW). Lane 2: HeLa cell lysate. Lane 3: H2O2 treated HeLa cell lysate. Load: 12 ug.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



FCM/FACS (Flow Cytometry)
Flow Cytometry analysis using Mouse Anti-Acrolein Monoclonal Antibody, Clone 10A10. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Acrolein Monoclonal Antibody 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 uM H2O2 for 24 hours.



WB (Western Blot)
Western Blot analysis of Acrolein-BSA Conjugate showing detection of 67 kDa Acrolein protein using Mouse Anti-Acrolein Monoclonal Antibody, Clone 10A10. Lane 1: Molecular Weight Ladder (MW). Lane 2: AcroleinBSA (0.5 ug). Lane 3: AcroleinBSA (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-Acrolein 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-Acrolein Monoclonal Antibody, Clone 10A10. Tissue: Embryonic kidney epithelial cell line (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 uM H_2O_2. (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.

ADDITIONAL INFORMATION

Product Categories/Family for anti-Acrolein 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/acrolein-antibody-clone-10a10-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/104006