Mouse Hexanoyl-Lysine adduct Monoclonal Antibody | anti-HEL antibody

Hexanoyl-Lysine adduct Antibody, Clone 5E8: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA104030	**Mouse**	**Species Independent**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Hexanoyl-Lysine adduct; Monoclonal Antibody; Hexanoyl-Lysine adduct Antibody; Clone 5E8: RPE; Mouse Anti-Hexanoyl-Lysine adduct (HEL) Monoclonal IgG1; Hexanoyl-Lysine adduct Antibody: RPE; HEL (Hexanoyl-Lysine adduct) Antibody; HEL Antibody; HEL Adduct Antibody; Hexanoyl-Lys adduct Antibody; Hexanoyl-Lys Antibody; Hexanoyl-Lysine (HEL) adduct Antibody; Hexanoyl-Lys (HEL) Antibody; Hexanoyl Lysine adduct Antibody; Hexanoyl-Lysine adduct-modified protein Antibody; Hexanoyl-Lysine Adduct (HEL) Antibody; anti-HEL antibody

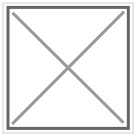
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Species Independent
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5E8
Specificity	Specific for Hexanoyl-Lysine adduct (HEL) modified peptides and proteins. Does not detect free Hexanoyl-Lysine. Does not cross-react with Acrolein, Crotonaldehyde, 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-HEL antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Target	Hexanoyl-Lysine adduct
Immunogen	Synthetic Hexanoyl modified Keyhole Limpet Hemocyanin (KLH).
Conjugate	RPE
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Preparation and Storage	Store at -20 degree C.

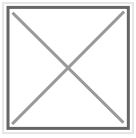
IMAGES

WB (Western Blot)
Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Hexanoyl-Lysine adduct protein using Mouse Anti-Hexanoyl-Lysine adduct Monoclonal Antibody, Clone 5E8. 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-Hexanoyl-Lysine adduct 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-Hexanoyl-Lysine adduct Monoclonal Antibody, Clone 5E8. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Hexanoyl-Lysine adduct 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.



WB (Western Blot)
Western Blot analysis of Hexanoyl Lysine-BSA Conjugate showing detection of 67 kDa Hexanoyl-Lysine adduct protein using Mouse Anti-Hexanoyl-Lysine adduct Monoclonal Antibody, Clone 5E8. Lane 1: Molecular Weight Ladder (MW). Lane 2: Hexanoyl Lysine-BSA. Lane 3: BSA. Load: 0.5 ug. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Hexanoyl-Lysine adduct 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-Hexanoyl-Lysine adduct Monoclonal Antibody, Clone 5E8. Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Hexanoyl-Lysine adduct 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) Hexanoyl-Lysine adduct Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

ADDITIONAL INFORMATION

Product Categories/Family for anti-HEL antibody	Antibodies; Cancer; Oxidative Stress; Lipid peroxidation

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/hexanoyl-lysine-adduct-antibody-clone-5e8-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/104030