Anti Hexanoyl-Lysine adduct(HEL) Monoclonal antibody(clone 5F12)

Catalog #:	MHL-021P (20μg of IgG, Lyophilized powder)
Immunogen:	Hexanoyl modified keyhole limpet hemocyanine
Application:	Immunohistochemistry (Recommended concentration: 2μg/ml), western blotting and ELISA.
Class:	Mouse IgG$_{1kappa}$
Reconstitution:	Dissolve in 200μL of distilled water.
Buffer Concentration:	Anti HEL monoclonal antibody 100μg/mL * 200μL(PBS pH7.4) Containing sucrose (5%) and BSA（1%）.
Specificity:	Cross reactivity is checked for following loxidized lipids： MDA, glyoxal, methylglyoxal, 1-hexanal, 2-hexenal, 1-nonannal, 2-nonenal, 4-hudroxy-2-nonenal
Storage:	Store at less than -20℃. Avoid repeated freeze & thaw after reconstitution. For short term storage or transport, storage at 4℃ is acceptable.
Stability:	5 years at -20℃

References:

1. Yoji Kato, Yoshiaki Miyake, Kanefumi Yamamoto, Yoshiharu Shimomura, Hirotomo Ochi, Yoko Mori, Toshihiko Osawa.: Preparation of a monoclonal antibody to Nε-(hexanonyl) lysine: applycation to the evaluation of protective effects of flavonoid supplementation against exercise-induced oxidative stress in rat skeletal muscle. Biochem. Biophys. Res. Commun., Vol. 274(2), p389-393, 2000
2. Yoji Kato, Yoko Mori, Yuko Makino, Yasujiro Morimitsu, Sadayuki Hiroi, Toshitsugu Ishikawa and Toshihiko Osawa: Formation of N$^{\varepsilon}$-(Hexanonyl) lysine in protein exposed to lipid hydroperoxide. The Journal of Biological Chemistry Vol. 274(29), p20406-20414, 1999
3. Yoji Kato and Toshihiko Osawa: Detection of lipid hydroperoxide-derived protein modification with polyclonal antibodies. Methods in Enzymology, Vol. 186, p37-44

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