

Anti Hexanoyl-Lysine adduct (HEL) Monoclonal antibody (clone 5H4)

- Catalog #:** MHL-020P (20 μ g of IgG, Lyophilized powder)
- Immunogen:** Hexanoyl modified keyhole limpet hemocyanine
- Application:** Immunohistochemistry (Recommended concentration: 2 μ g/ml), western blotting and ELISA
- Class:** IgG
- Reconstitution:** Dissolve in 200 μ L of distilled water.
- Buffer Concentration:** Anti HEL monoclonal antibody 100 μ g/mL * 200 μ L (PBS pH7.4) containing sucrose (5%), BSA (1%) and Procline950 (0.05% as preservative)
- Specificity:** -Cross reactivity is checked for following oxidized lipids:
MDA, glyoxal, methylglyoxal, 1-hexanal, 2-hexenal, 1-nonanal, 2-nonenal, 4-hydroxy-2-nonenal
- Among analogues with CH₃-(CH₂)ⁿ-CO-NH-Lys structures, this antibody is specific for N=4 structure. hexanoyl-Lys.
- Storage:** Store at less than -20°C.
Avoid repeated freeze & thaw after reconstitution.
For short term storage or transport, storage at 4°C is acceptable.
- Stability:** 3 years at -20°C
- References:**
1. Yoji Kato, Yoshiaki Miyake, Kanefumi Yamamoto, Yoshiharu Shimomura, Hiroto Ochi, Yoko Mori, Toshihiko Osawa: Preparation of a monoclonal antibody to N ϵ -(hexanoyl) lysine: application 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 ϵ -(Hexanoyl) 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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JAPAN INSTITUTE FOR THE CONTROL OF AGING (JaICA)

710-1 Haruoka, Fukuroi, Shizuoka, 437-0122 Japan

TEL : +81-538-49-0125

FAX : +81-538-49-1267

URL : <http://www.jaica.com/biotech/e/> E-mail : biotech@jaica.com