

Data Sheet

HEXANOYL-LYSINE (HEL)

ANTIBODY, MONOCLONAL

Catalog no.:	AA1015.1
Immunogen:	$N^{epsilon}$ (hexanoyl)-lysine KLH-coupled
Host:	Mouse Balb/c
Clone no.:	5F12
Isotype:	$IgG_{1\ kappa}$
Matrix:	10 mM PBS pH 7.4, 5% sucrose, 1% BSA, 0.05% Proclin 950
Specificity:	Hexanoyl-lysine. $N^{epsilon}$ (heptanonyl)-lysine is weakly recognized. There was no cross reactivity obtained with Benzoyl-glycyl-L-lysine, malondialdehyde, glyoxal, methyl glyoxal, 1-hexanal, 2-hexenal, 1-nonanal, 2-nonenal, 4-hydroxy-2-nonenal.
Contents:	20 µg (lyophilized) Resuspend in 200 µl aqua bidest. for 100 µg/ml of IgG
Known applications:	ELISA[2], Western Blot, immunohistochemistry (paraffin sections, 2 µg/ml) This antibody has not been tested for use in all applications. This does not necessarily exclude its use in non-tested procedures. The stated dilutions are recommendations only. End users should determine optimal dilutions in their system using appropriate negative/positive controls.
Store at:	- 20 °C Repeated thawing and freezing must be avoided

References:

1. Yoji Kato, Yoko Mori, Yuko Makino, Yasujiro Morimitsu, Sadayuki Hiroi, Toshitsugu Ishikawa, Toshihiko Osawa, (1999). Formation of N epsilon-(hexanonyl) lysine in protein exposed to lipid hydroperoxide. *J Biol Chem* **274**(29), p20406-20414

2. Kato Y, Miyake Y, Yamamoto K, Shimomura Y, Ochi H, Mori Y, Osawa T. (2000). Preparation of a monoclonal antibody to N(epsilon)-(Hexanonyl)lysine: application to the evaluation of protective effects of flavonoid supplementation against exercise-induced oxidative stress in rat skeletal muscle. *Biochem Biophys Res Commun* **274**(2)**:** 389-393

3. Fukuchi Y, Miura Y, Nabeno Y, Kato Y, Osawa T, Naito M, (2008). Immunohistochemical detection of oxidative stress biomarkers, dityrosine and N(epsilon)-(hexanoyl)lysine, and C-reactive protein in rabbit atherosclerotic lesions. *J Atheroscler Thromb* **15**(4)p185-192

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4. Maeda R, Noiri E, Isobe H, Homma T, Tanaka T, Negishi K, Doi K, Fujita T, Nakamura E, (2008). A water-soluble fullerene vesicle alleviates angiotensin II-induced oxidative stress in human umbilical venous endothelial cells. *Hypertens Res* **31**(1)p141-151

5. Sango K, Yanagisawa H, Kato K, Kato N, Hirooka H, Watabe K., (2008). Differential Effects of High Glucose and Methylglyoxal on Viability and Polyol Metabolism in Immortalized Adult Mouse Schwann Cells. *Open Diabetes J.* **1**, p1-11

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