



Northwest
Life Science Specialties, LLC

Anti Hexanoyl-Lysine adduct (HEL) Monoclonal Antibody Clone 5H4

Catalog: NWA-HEL020

Description: Murine monoclonal anti Hexanoyl-Lysine adduct
(20 µg of Protein A Purified IgG per vial)

The Hexanoyl-Lysine (HEL) adduct is a by-product of lipid peroxidation formed upon oxidative modification of omega-6 fatty acids such as linoleic acid, the predominant polyunsaturated fatty acid (PUFA) in the human diet, and arachidonic acid.

Specificity: This antibody recognizes hexanoyl-lysine adduct product of lipid peroxidation.

Format: Lyophilized powder

Reconstitution: Dissolve in 200µL distilled water.

Reconstituted Ab: 100µg/mL in 200µL PBS (pH7.4 containing 5% sucrose, 1%, BSA and 0.05% Procline950 as preservative).

Suggested Use:	IHC	2 µg/mL
	Western blot:	N/D
	ELISA	N/D

Titer optimization should be conducted by the client for each individual application.

Cross Reactivity: Cross reactivity was checked for the following oxidized lipids:
MDA, glyoxal, methylglyoxal, 1-hexanal, 2-hexenal, 1-nonanal, 2-nonenal, 4-hydroxy-2-nonenal

Among analogues with $\text{CH}_3\text{-(CH}_2\text{)}^n\text{-CO-NH-Lys}$ structures, this antibody is specific for N=4 structure: hexanoyl-lys.

Shipping/Storage: For short term storage or transport, storage at 4 °C is acceptable.
Freeze at -20 °C upon arrival for longer term storage.
Avoid repeated freeze & thaw cycles after reconstitution.

Stability: 3 years at -20 °C.

References: Kato Y et al (2000) *Biochem. Biophys. Res. Commun* 274(2):389-393
Kato Y et al (1999) *Journal of Biological Chemistry* 274(29):20406-20414
Kato Y et al, *Methods in Enzymology*, 186:37-44

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