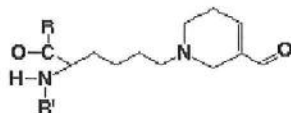


Anti- acrolein (ACR) Monoclonal Antibody



Acrolein

N^ε-(3-formyl-3,4-dehydropiperidino)-lysine

Acrolein (ACR) is a representative carcinogenic aldehyde found ubiquitously in the environment and formed endogenously through oxidation reactions, such as lipid peroxidation and myeloperoxidase catalyzed amino acid oxidation. ACR is highly reactive aldehyde and reacts with lysine residue in protein. The reaction with ACR and lysine residue leads to the formation of numerous numbers of adducts, such as formyl-dehydropiperidino-lysine (FDP-lysine) type derivative. This antibody is specific for the ACR modified protein, especially FDP-lysine type derivative.

- Catalog #:** N213320 / N213310 (20 / 100 μg of IgG)
- Clone #:** 5F6
- Immunogen:** ACR-modified keyhole-lympet hemocyanine
- Subclass:** Mouse IgG₁ kappa
- Application:** Immunohistochemistry ; It is recommended that the antibody be tried at 0.5-1.0 μg/mL on paraformaldehyde fixed tissue
- Buffer Concentration:** Frozen. (10mM PBS containing 0.1 %NaN₃ and 0.5% BSA)
100 μg/mL IgG.
- Specificity:** Specific for ACR-modified protein (especially FDP-lysine type derivative)
- Storage:** Less than -20°C
- Stability:** Maintain at -20°C undiluted aliquots for up to 6 months after date of receipt. For long term storage, aliquot product into individual tubes and freeze at -20 or -70°C. Avoid repeated freeze/thaw cycles.
- Reference:**
- 1) Protein-bound acrolein: Potential markers for oxidative stress. K.Uchida, M.Kanematsu, K.Sakai, T.Matsuda, N.Hattori, Y.Mizuno, D.Suzuki, T.Miyata, N.Noguchi, E.Niki, T.Osawa, Proc.Natl.Acad.Sci.USA, 95, 4882-4887 (1998)
 - 2) Protein-bound acrolein: A novel markers of oxidative stress in Alzheimer's Disease. Noel Y. Calingasan, Koji Uchida, and Gary E.Gibson, Journal of Neurochemistry. 72(2), 751-756 (1999)

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