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Document ID: IM-MHN070713E
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Anti-4-Hydroxy-2-nonenal (4-HNE) Monoclonal Antibody (HNEJ-2)

Catalog #: 1) N213220
2) N213210

Content: 1) 20 μg of IgG / vial. Lyophilized powder.
2) 100 μg of IgG / vial. Lyophilized powder.

Clone #: HNEJ-2

Immunogen: 4-Hydroxy-2-nonenal (4-HNE)-modified keyhole limpet hemocyanine.

Subclass: Mouse $IgG_{1(\kappa)}$, Prepared as ascite, and ammonium sulfate purified.

Application: Immunohistochemistry [ref.1] (Recommended concentration: 25μg/mL IgG)
Western blotting [ref.2] (Recommended concentration: 15μg/mL IgG)

Reconstitution: 1) Reconstitute with 200 μL of distilled water.
2) Reconstitute with 1000 μL of distilled water.

Buffer Concentration: 100μg/mL IgG in 50mM Tris-buffered saline (TBS).

Specificity: Specific for 4-HNE-Lysine adduct.
This antibody show almost negligible reactivity with proteins that were treated with other aldehydes, such as 2-nonenal, 2-hexenal, 1-hexanal, 4-hydroxy-2-hexenal, formaldehyde, or glutaraldehyde.

By inhibition test, this antibody has a much higher affinity for the 4-HNE-histidine adduct than 4-HNE-lysine or 4-HNE cysteine adduct.

Storage: Store at less than -20℃.
After reconstitution, store as frozen aliquots and avoid repeated freeze & thaw.

Stability: 5 years at -20℃.

References:
Ref. 1) T.Tanaka et al. Laboratory Investigation 77(2), p145-155 (1997)
Ref. 2) S.Toyokuni et al. FEBS Letters 359, p189-191 (1995)

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