

Anti-4-Hydroxy-2-nonenal (4-HNE) Monoclonal Antibody (HNEJ-2)

- Catalog #:** 1) MHN-020P
2) MHN-100P
- Content:** 1) 20 μ g of IgG / vial. Lyophilized powder.
2) 100 μ g of IgG / vial. Lyophilized powder.
- Clone #:** HNEJ-2
- Immunogen:** 4-Hydroxy-2-nonenal (4-HNE)-modified keyhole limpet hemocyanine.
- Subclass:** Mouse IgG₁(κ), Prepared as ascite, and ammonium sulfate purified.
- Application:** Immunohistochemistry [ref.1] (Recommended concentration: 25 μ g/mL IgG)
Western blotting [ref.2] (Recommended concentration: 15 μ g/mL IgG)
- Reconstitution:** 1) Reconstitute with 200 μ L of distilled water.
2) Reconstitute with 1000 μ L of distilled water.
- Buffer Concentration:** 100 μ g/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°C.
After reconstitution, store as frozen aliquots and avoid repeated freeze & thaw.
- Stability:** 5 years at -20°C.
- 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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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

WEB : <http://www.jaica.com>

E-mail : biotech@jaica.com