

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

抗 4-Hydroxy-2-nonenal モノクローナル抗体(HNEJ-2)

**Catalog No. :** MHN-100P

Lot No.	014
Expiration	2026/11

**Content:** 100 µg of IgG / vial. Lyophilized powder.

**Clone No. :** HNEJ-2

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

**Subclass:** Mouse IgG<sub>1</sub> kappa, Prepared as ascite, and ammonium sulfate purified.

**Application:** Immunohistochemistry (Recommended concentration: 25 µg/mL IgG)  
Western blotting (Recommended concentration: 15 µg/mL IgG)

**Reconstitution:** Reconstitute with 1000 µL of distilled water.

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

**Specificity:** Specific for 4-HNE-lysine, 4-HNE-histidine and 4-HNE cysteine adduct.  
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.

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.

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

***For research use only, not for diagnostic use.***



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