

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

- Catalog #:** 1) N213220  
2) N213210
- Content:** 1) 20  $\mu$ g of IgG / vial. Lyophilized powder.  
2) 100  $\mu$ g of IgG / vial. Lyophilized powder.
- Clone #:** HNEJ-2
- Immunogen:** 4-Hydroxy-2-nonenal (4-HNE)-modified keyhole limpet hemocyanine.
- Subclass:** Mouse IgG<sub>1(k)</sub>, Prepared as ascite, and ammonium sulfate purified.
- Application:** Immunohistochemistry [ref.1] (Recommended concentration: 25 $\mu$ g/mL IgG)  
Western blotting [ref.2] (Recommended concentration: 15 $\mu$ g/mL IgG)
- Reconstitution:** 1) Reconstitute with 200  $\mu$  L of distilled water.  
2) Reconstitute with 1000  $\mu$  L of distilled water.
- Buffer Concentration:** 100 $\mu$ 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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