



## PRODUCT DATA SHEET

**Product:** Anti-4-Hydroxy-2-nonenal (4-HNE) mAb, clone HNEJ-2

**Cat. No.:** MC-1019 (20 µg)  
MC-1020 (100 µg)

**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 shows 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.

**Immunogen:**

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

**Ig Isotype:**

Mouse IgG<sub>1/k</sub>

**Reconstitution:**

20 µg: Reconstitute with 200 µL of distilled water.  
100 µg: Reconstitute with 1,000 µL of distilled water.

**Format:**

Lyophilized Powder. Monoclonal antibody at 100 µg/mL in 50 mM Tris-buffered saline (TBS). Prepared as ascite, and ammonium sulfate purified.

**Storage:**

Store at less than -20°C. After reconstitution, store as frozen aliquots and avoid repeated freeze/thaw cycles.

**Applications and Suggested Dilutions:**

- Western Blot: Recommended concentration: 15 µg/mL
- Immunohistochemistry: Recommended concentration: 25 µg/mL

The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.