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

Catalog #:  
1) MHN-020P  
2) MHN-100P

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\(\kappa\)\(\), 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, 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℃.  
After reconstitution, store as frozen aliquots and avoid repeated freeze & thaw.

Stability:  
5 years at -20℃.

References:  