



PRODUCT DATA SHEET

Product: Anti-4-hydroxy-2-hexenal (4-HHE) mAb, clone HHE53

Cat. No.: MC-1021 (30 µg)

Description:

4-hydroxy-2-alkenal is one of the major lipid peroxidation products, and shows many biological effects such as high toxicity to cells. Among them, 4-hydroxy-2-hexenal (HHE) is an aldehyde formed during peroxidation of n-3 fatty acids such as docosahexaenoic acid. HHE is a highly reactive aldehyde and reacts with histidine residue of protein to form Michael-addition type adducts. This antibody is specific for HHE-histidine Michael adduct (HHE-His) and enables detection of HHE-His in tissue samples.

Immunogen:

HHE-modified keyhole-lympet hemocyanine.

Specificity:

Specific for HHE-modified protein (especially HHE-His Michael adduct)

Ig Isotype:

Mouse IgG_{1/k}

Format:

Monoclonal antibody at 100 µg/mL in 10 mM PBS containing 0.1% NaN₃ and protein stabilizer. Prepared as ascite, and protein-A purified.

Storage:

Store at less than -20 °C. For long term storage, aliquot product into individual tubes and freeze at -20 °C or -70 °C. Avoid repeated freeze/thaw cycles.

Application and Suggested Dilution:

- Immunohistochemistry: Recommended antibody concentration is 0.5 – 1.0 µg/mL on paraformaldehyde fixed tissue.

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.