



PRODUCT DATA SHEET

Product: Anti-acrolein (ACR) mAb, clone 5F6

Cat. No.: MC-1017 (20 µg)
MC-1018 (100 µg)

Description:

Acrolein (ACR) is a representative carcinogenic aldehyde found ubiquitously in the environment and formed endogenously through oxidation reactions, such as lipid peroxidation and myeloperoxidase catalyzed amino acid oxidation. ACR is a highly reactive aldehyde and reacts with lysine residue in protein. The reaction with ACR and lysine residue leads to the formation of numerous numbers of adducts, such as formyl-dehydropiperidino-lysine (FDP-lysine) type derivative. This antibody is specific for the ACR-modified protein, especially FDP-lysine type derivative.

Immunogen:

ACR-modified keyhole-lympet hemocyanine.

Specificity:

Specific for ACR-modified protein (especially FDP-lysine type derivative).

Ig Isotype:

Mouse IgG_{1/k}

Format:

Monoclonal antibody at 100 µg/mL in 10 mM PBS containing 0.1% NaN₃ and protein stabilizer.

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: It is recommended that the antibody be tried at 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.