PRODUCT DATA SHEET

Product: Anti-Thymine Dimer mAb, clone KTM53

Cat. No.: **MC-062 (100 µg)**

Synonyms:
Cyclobutane pyrimidine dimer (CPD)

Specificity:
Reacts specifically with thymine dimers produced by UV irradiation in double- or single-stranded DNA. Does not react with (6-4) photo products.

Ig Isotype:
Mouse IgG_1

Immunogen:
UV-irradiated salmon sperm DNA

Hybridoma:
Mouse myeloma (P3/X63-Ag8) x immunized mouse (Balb/c) splenocytes.

Format:
200 µL of 0.5 mg/mL purified monoclonal antibody in PBS with protein stabilizer and 0.1% sodium azide. Purified by Protein A chromatography.

Storage:
Store at 4°C for short term, store at –20°C for long term. Avoid repeat freeze/thaw cycles.

Applications and Suggested Dilutions:
- *In situ* hybridization: Use at a 1:40 to 1:80 dilution. The dilution factor depends on the application. Frozen sections of fixed tissue or formalin-fixed, paraffin-embedded sections are recommended.
- Southern, Northern and Dot Blot: For the detection of thymine dimers in UV-damaged DNA and thymine-dimerized DNA probes used for *in situ*. (reported to work, but no data is available)
- Immunocytochemistry: Reported to work by end-user, protocol available.
- Immunohistochemistry: Published, but not verified by Kamiya Biomedical Company.

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.