



PRODUCT DATA SHEET

Product: Anti-(6-4) Photoproducts, Clone KTM50

Cat. No.: MC-082 (100 µg)

Specificity:

Reacts specifically with the (6-4) photoproducts of thymine dimers that are produced by UV-irradiation of DNA. Does not react with thymine dimers. Binds (6-4) photoproducts in both double and single stranded DNA, although the affinity is less for single stranded DNA.

Ig Isotype: mouse IgG1

Immunogen:

UV-irradiated salmon sperm DNA

Hybridoma:

Mouse myeloma (P3/X63-Ag8) x immunized mouse (Balb/c) spleen cells

Format:

200 µl of 0.5 mg/ml purified antibody in PBS with 1% BSA and 0.1% sodium azide.

Storage:

Short term: store at 2-8°C, long term: store at -20°C. Aliquot to avoid repeat freeze/thaw cycles.

Applications and Suggested Dilutions:

Detection and quantitative determination of DNA damage as a result of UV irradiation.

- ELISA
- DNA blotting

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

References:

1. Eller, M.S. *et al.* (1997). Enhancement of DNA repair in human skin cells by thymidine dinucleotides: Evidence for a p53-mediated mammalian SOS response. *Proc. Natl. Acad. Sci. USA* **94**: 12627-12632.

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.