



PRODUCT DATA SHEET

Product: Anti-MRP6, clone M₆II-21

Cat. No.: MC-486 (1 mL)

Background:

M₆II-21 reacts with MRP6 (ABCC6), a 190-200 kDa transmembrane protein that is related to the multidrug resistance related protein MRP. Mutations in the *MRP6* gene are responsible for the connective tissue disorder Pseudoxanthoma elasticum (PXE).

Specificity:

M₆II-21 did not cross-react with the human *MDR1*, *MRP1*, *MRP2*, *MRP3*, *MRP4* and *MRP5* gene products.

Species Reactivity:

Human. Others not tested.

Ig Isotype:

Rat IgG₁

Immunogen:

M₆II-21 was raised against a bacterial fusion protein of human MRP6, containing amino acids 764-964, spanning the putative 12th transmembrane region as well as predicted internal and external regions of the protein.

Hybridoma:

The hybridomas cell line was obtained by fusion of lymph node cells from an immunized rat (Wistar) with SP2/O mouse myeloma cells.

Format:

1 mL vial containing antibody in a serum-free culture supernatant with protein stabilizer and 0.1% sodium azide. The concentration is approximately 100 µg IgG/mL. The culture medium is RPMI-1640 supplemented with Nutridoma-SR. The medium does not contain serum or added enzymes. The antibody solution has been filtered through a 0.22 micron filter.

Storage:

Store at 4°C for short term. Aliquot and store at -20°C for long term. Avoid repeated freeze/thaw cycles.

Applications and Suggested Dilutions:

- Immunocytochemistry: Use at a 1:20-1:50 dilution on acetone fixed cytospin preparations.
- Western blotting: Use at a 1:20-1:50 dilution and anti-rat-HRP.
- Immunohistochemistry: Use at a 1:20-1:50 dilution on acetone fixed frozen sections, followed by incubation with rabbit anti-rat IgG and an APAAP complex. Unreactive on standard formaldehyde-fixed paraffin-embedded material.
- Flow cytometry: Optimal conditions still to be defined.

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.