

## PRODUCT DATA SHEET

**Product:** Anti-Proteinase Inhibitor 9 mAb, clone PI9-17

**Cat. No.:** MC-028 (125 µg)

**Specificity:**

Recognizes human Proteinase Inhibitor 9 (PI9). Does not cross-react with other homologous serpins (PI6, PI8 and PAI-2). Detects bands of ~42 kDa (native PI9) and ~63 kDa (PI9 complexed to granzyme B) by Western blot.

**Positive Control:**

YT-Indy cells (a natural killer leukemia cell line) can be used as positive control. In other cell lines a non-specific protein band of ~63 kDa can be detected.

**Species Reactivity:**

Human. Other species not tested.

**Ig Isotype:**

Mouse IgG<sub>1</sub>

**Immunogen:**

Human full-length recombinant Proteinase Inhibitor 9 (PI9).

**Format:**

125 µg of ~250 µg/mL liquid monoclonal antibody in serum-free culture supernatant containing protein stabilizer and 0.1% sodium azide.

**Storage:**

Store at 4°C short term. Store at -20°C long term. Aliquot to avoid freeze/thaw cycles.

**Applications and Suggested Dilutions:**

- Immunohistochemistry: Formaldehyde-fixed, paraffin-embedded human tissues after pretreatment with 10 mM citric acid pH 6.0 for 20 min. (use ~1:100); For fixed cytospin preparations fix cells for 10 min. in 10% formalin and then treat them as paraffin sections.
- Western blot
- Flow cytometry: NOT suitable.

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

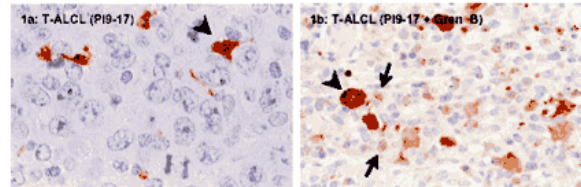


Fig. 1: Tissue sections of T-ALCL. Left: stained with MC-028. Right: double stained with MC-028 (red) and granzyme B (brown). In the right panel the arrows point to tumor-infiltrating CTLs positive for granzyme B and the arrowhead denotes an example of a PI9<sup>+</sup> neoplastic cell.

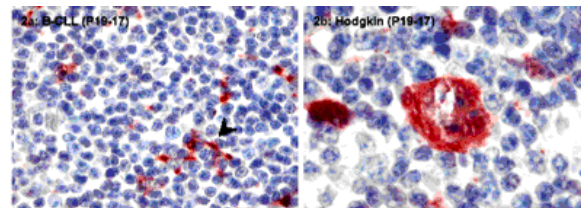


Fig. 2: The above tumors were stained for PI9. Left: B-CLL. Right: classical Hodgkin disease, nodular sclerosing subtype.

**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.