# Proteinase inhibitor 9 (human) monoclonal antibody (PI9-17)

The human intracellular serpin proteinase inhibitor 9 (PI9) is the only human protein able to inhibit the activity of the serine protease granzyme B. Granzyme B is expressed by cytotoxic lymphocytes and induces rapid target cell apoptosis.

**This antibody is covered by our Worry-Free Guarantee.**

**Citations:** 8 View Online »

## Ordering Information Order Online »

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|---|---|
| **ALX-804-4570** | 125µg |

## Manuals, SDS & CofA View Online »

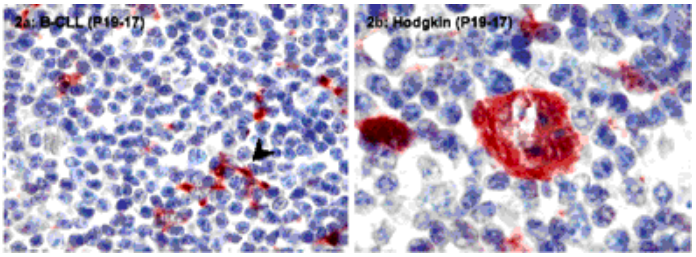



**Figure 2:** The following tumors were stained for PI9: a) B-CLL and b) classical Hodgkin disease, nodular sclerosing subtype.

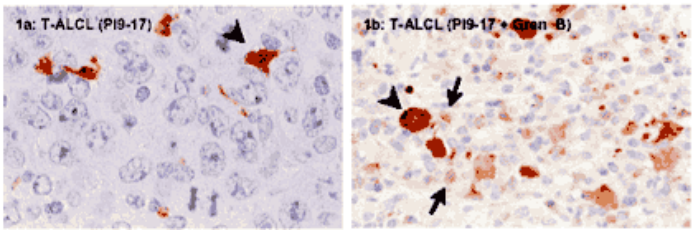



**Figure 1:** Tissue sections of T-ALCL a) stained with MAb to PI9 (Prod. No. ALX-804-457) and b) double-stained with MAb to PI9 (red) (Prod. No. ALX-804-457) and granzyme B (brown). In panel b the arrows point to tumor-infiltrating CTLs positive for granzyme B and the arrowhead denotes an example of a $PI9^{+}$ neoplastic cell.”””””

## Handling & Storage

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| **Short Term Storage** | +4°C |
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

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| **Alternative Name** | PI9, Serpin B9, CAP3, Cytoplasmic antiproteinase 3 |
| **Application** | IHC (PS), WB |
| **Application Notes** | Detects bands of ~42kDa (native PI9) and ~67kDa (PI9 complexed to granzyme B) by Western blot.<br>Not suitable for Flow Cytometry. |
| **Clone** | PI9-17 |
| **Crossreactivity** | Does not cross-react with PI6, PI8 or PAI-2. |
| **Formulation** | Liquid. In serum free culture supernatant containing 0.7% BSA and 0.1% sodium azide. |
| **Host** | Mouse |
| **Immunogen** | Recombinant human full-length PI9 (proteinase inhibitor 9). |
| **Isotype** | IgG1 |
| **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 ~63kDa can be detected. |

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| **Recommendation Dilutions/Conditions** | Immunohistochemistry (formaldehyde-fixed paraffin-embedded human tissues after pretreatment with 10mM citric acid pH 6.0 for 20min; use ~1:100. For fixed cytospin preparations fix cells for 10min in 10% formalin and then treat them as paraffin sections)Western Blot (standard procedures)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application. |
| **Species Reactivity** | Human |
| **UniProt ID** | P50453 |
| **Worry-free Guarantee** | **This antibody is covered by our Worry-Free Guarantee .** |

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