

## Monoclonal antibody against human PMN-Elastase

Product No. ADG0018

### Description

PMN elastase is localized in the azurophilic granules of the polymorphonuclear granulocytes. During phagocytosis of foreign substances these enzymes are also partially excreted into the extracellular surrounding, where the activity of PMN elastase is regulated by inhibitors (esp. the alpha 1-proteinase inhibitor, alpha 1- PI). An overwhelming release of PMN elastase, however, can exceed the inhibitory potential of the  $\alpha$ 1-proteinase inhibitor. Thus, enzymatically active PMN elastase, together with simultaneously produced oxidants ( $O_2$ -radicals,  $H_2O_2$ , OH-radicals), can cause local tissue injury. Polymorphonuclear elastase (PMN-Elastase) is used as an important marker for inflammatory diseases.

### Properties

The antibody recognizes free/non-complexed PMN-Elastase and PMN-Elastase that is complexed to alpha1 proteinase inhibitor.

### Preparation

The monoclonal antibody ADG0018 (clone HD-ELA 6.4.2) is a murine monoclonal antibody, subclass IgG<sub>1</sub>.

The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

### Presentation

Vial containing 250  $\mu$ g purified antibody in PBS pH 7.4. The concentration is given on the vial label. Spin the vial briefly before opening.

### Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

### Applications

ELISA

Immunocytology

Immunohistology (frozen sections)

### References

- 1) Measurement of free human leukocyte elastase and human leukocyte elastase/alpha1 proteinase inhibitor complexes by an enzyme-linked immunosorbent assay. Kramer MD, Müller-Bardorff M, Simon MM, Tilgen W, Schickel E, Petzoldt D. J Immunol Methods. 1990 Jul 20;131(1):41-48.
- 2) Alpha 2-macroglobulin and alpha 2-macroglobulin/proteinase complexes in human seminal fluid. Kramer MD, Simon MM, Tilgen W, Naher H, Justus CW, Petzoldt D. Fertil Steril. 1992 Feb;57(2):417-421.

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### Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

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