

## Monoclonal antibody against human alpha-1 proteinase inhibitor Product No. ADG0034L

### Description

alpha-1 proteinase inhibitor (A1PI) is a serine protease inhibitor (serpin) inhibiting a wide variety of proteases. It is a 52 kDa glycoprotein also known as alpha1-antitrypsin (A1AT) or serum trypsin inhibitor. It protects tissues from enzymes of inflammatory cells, especially elastase. It is present in human blood, the concentration can rise manyfolds upon acute inflammation.

### Properties

The antibody recognizes free alpha-1 proteinase inhibitor as well as PMN-elastase/ alpha-1 proteinase inhibitor complexes.

### Preparation

The monoclonal antibody ADG0034L (clone HD-AT 1) is a murine monoclonal antibody, subclass IgG<sub>1</sub> recognizing the human  $\alpha$ 1-antitrypsin. Mice were immunized with purified native human  $\alpha$ 1-antitrypsin. The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

### Presentation

Screw capped vial containing 1 mg of purified antibody in PBS pH 7.4. The IgG 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
- Western-Blot

### Reference

Measurement of free human leukocyte elastase and human leukocyte elastase/alpha 1 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):41-8

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