

Alpha-1-Antitrypsin Monoclonal Antibodies

ORDERING INFORMATION

Catalog No.	Clone No.	MAb Subtype	Size	Library Pack No.	100ug/clone
13701	1AT10-105.10	IgG2a	100ug, 500ug	137101	All 4 clones
13702	1AT11-210.1	IgG1	100ug, 500ug		
13703	1AT11-209.3	IgG1	100ug, 500ug		
13704	1AT11-213.5	IgG1	100ug, 500ug		

Format: Protein G-purified antibody in PBS, pH 7.4.

BACKGROUND

Alpha-1 Antitrypsin (α 1AT) is a protease inhibitor of the serpin superfamily. It is generally known as serum trypsin inhibitor and is also referred to as alpha-1 proteinase inhibitor (α 1PI) because it inhibits multiple proteases. It protects tissues from proteases of inflammatory cells, particularly neutrophil elastase, and has a reference range in blood of 1.5 - 3.5 gram/liter, but the concentration can rise significantly in cases of acute inflammation. In its absence (such as in α 1AT deficiency), neutrophil elastase is free to break down elastin, which contributes to the elasticity of the lungs, resulting in respiratory complications such as emphysema, or COPD (chronic obstructive pulmonary disease) in adults and cirrhosis in adults or children.

SPECIFICATION SUMMARY

Antigen: Purified human serum alpha-1-antitrypsin.

Host Species: Mouse

Specificity: These antibodies specifically recognize human serum alpha-1-antitrypsin. They do not cross-react with alpha-1-antichymotrypsin.

APPLICATIONS

These antibodies have been qualified for use in ELISA to detect human α 1AT. Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

These antibodies are stable for at least one (1) year at -20°C to -70°C . Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not intended for use in therapeutic or diagnostic procedures.