

## Product specifications

Name	Anti-h AAT 1003 SPTN-5
Specificity	Antibody recognizes human Alpha 1-antitrypsin
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	100210
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
Analyte description	AAT is a glycoprotein that protects the lungs from the destructive actions of blood enzymes. Disorders of this protein include AAT-deficiency leading to chronic uninhibited tissue breakdown.

## Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.7–7.5
Purity	≥ 95 %

## Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	N/D
Determination method	-
Determination antigen	-



**Cross-reactivities**

Antibody binds both free AAT and its complex with trypsin.

**Epitope**

N/D

**Pair recommendations**

		DETECTION	
		1002	1003
CAPTURE	1002	-	+
	1003	+	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Platforms tested**

FIA

**Antigens tested**

Native Alpha-1-Antitrypsin Lee Biosolutions 106-11.

**Product stability**

TEMPERATURE, TIME	RESULT
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 14 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

**Miscellaneous**

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**References**

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