



## Mouse Anti-Human $\alpha$ 1-antitrypsin Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human  $\alpha$ 1-antitrypsin

**Clone No.:** 9F2

**Catalogue No.:** MO-M40096B

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to human  $\alpha$ 1-antitrypsin(AAT)

**Purification:** Protein G affinity purified

**Product type:** Primary antibody

**Target Protein:** Human  $\alpha$ 1-antitrypsin

**Immunogen:** Human plasma derived  $\alpha$ 1-antitrypsin

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** This monoclonal antibody reacts with human  $\alpha$ 1-antitrypsin

**Species Reactivity:** Human

**Host / Isotype:** Mouse, IgG1 Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS, pH 7.2

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00 mg/mL.

**Storage:** Store at -20°C

**Research Area:**  $\alpha$ 1-antitrypsin deficiency disorder, Alzheimer's disease

**Background:**  $\alpha$ 1-antitrypsin is a protective protease inhibitor. It inhibits elastase released by neutrophils during inflammatory reaction and irreversibly inactivates

trypsin secreted in duodenum and elsewhere.  $\alpha$ 1-antitrypsin normally presents in plasma at 1.5-3.5 mg/mL, but increases in acute phase reaction, malignancies, pregnancy and trauma. Severe hereditary  $\alpha$ 1-antitrypsin deficiency can result in damages to alveoli, chronic obstructive pulmonary disease (COPD), and liver diseases such as jaundice and cirrhosis. The protein is also found in the neurofibrillary tangles and senile plaques in the brain lesions of Alzheimer's disease, and has been suggested to contribute to the pathology of Alzheimer's disease.

**Applications: Western Blot**

Detect  $\alpha$ 1-antitrypsin (AAT) using mAb 9F2 at 1:5000 dilution (0.2  $\mu$ g/mL).

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Lane 1 and 2: AAT is loaded at 20ng/well

**ELISA**

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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