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Mouse Anti-Human α 1-antitrypsin Monoclonal Antibody Datasheet

Product Name: mAb anti-Human α 1-antitrypsin

Clone No.: 5G5

Catalogue No.: MO-M40096A

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human α 1-antitrypsin(AAT)

Purification: Protein G affinity purified

Product type: Primary antibody

Target Protein: Human α 1-antitrypsin

Immunogen: Human plasma derived α 1-antitrypsin

Fusion Myeloma: Sp2/0-Ag14

Specificity: This monoclonal antibody reacts with human α 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: α 1-antitrypsin deficiency disorder, Alzheimer's disease

Background: α 1-antitrypsin (AAT) is a protective protease inhibitor. It inhibits elastase released by neutrophils during inflammatory reaction and irreversibly

inactivates trypsin secreted in duodenum and elsewhere. α 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 α 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 α 1-antitrypsin (AAT) using antibody 5G5 at 1:5000 dilution (0.2 μ g/mL).

1 2



Lane 1 and 2: AAT loaded at 20 ng/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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