

Anti α_1 -antitrypsin (human, α_1 -AT)
Mouse monoclonal antibody

Subclass: IgG_{2a}/ κ

PRODUCT NO.

HYB 185-02

Clone: 9E5

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 μ L and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

The serum glycoprotein α_1 -antitrypsin also called α_1 -AT, is a typical member of the serpin family (serine protease inhibitors), and, an inhibitor of trypsin. α_1 -AT is synthesized in the liver thus as a single polypeptide chain of approximately 51 kDa showing a marked degree of genetic polymorphism due to the presence of over 20 different alleles. Individuals homozygous for α_1 -AT deficiency are predisposed to pulmonary emphysema and hepatic cirrhosis.

IMMUNOGEN

 α_1 -AT isolated from human plasma adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 185-02 is specific for native human α_1 -AT

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 191-01

REACTIVITY

Reacts strongly with native α_1 -AT. A strong reaction is seen in ELISA with native α_1 -AT directly coated onto the microtiter well. In Western blotting after SDS-PAGE, HYB 185-02 reacts with native α_1 -AT in reduced as well as non-reduced form. In Western blotting a dilution guideline of 1/8000 has proved successful.

CULTURE MEDIUM

Dulbecco's modified Eagle's medium with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

| Method | Usability | References |
|----------------------|----------------|------------|
| ELISA | Yes | |
| Immunoblotting | Yes | |
| Immunohistochemistry | Not determined | |

REFERENCES

CONDITIONS

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