

PRODUCT SPECIFICATION

Anti-Aprotinin

Mouse monoclonal antibody, biotinylated ABS 037-18 B

Subclass: IgG1/k

PRODUCT NO.

PRESENTATION

Preparation: Biotinylated

Content: 50 µL, 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide

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

ANTIGEN

Aprotinin, also called bovine pancreatic trypsin inhibitor, is a single chain globular Kunitz-type serine proteinase inhibitor found in bovine pancreas, parotid gland and lung. It forms stable, enzymatically inactive complexes with trypsin, chymotrypsin, plasmin and kallikrein. Aprotinin has been used therapeutically as an antifibrinolytic agent under the name Trasylol (Bayer) to reduce blood loss during cardiopulmonary bypass surgery but this use has been associated with an increased frequency of acute renal injury (1).

IMMUNOGEN

Aprotinin from bovine lung adsorbed onto aluminum hydroxide gel

SPECIFICITY

ABS 037-18 binds bovine aprotinin immobilized on a solid phase or free in solution.

EPI TOPE SPECIFICITY

The epitope of ABS 037-18 is different from the epitopes of ABS 037-21 and ABS 037-35

REACTIVITY

ABS 037-18 (as biotinylated detection antibody e.g. at 1 µg/mL) forms an antibody pair with ABS 037-21 (as capture antibody) for high-sensitivity sandwich ELISA of aprotinin at sample concentrations of 0.6-20 µg/mL. Aprotinin in urine diluted 1/1000 can be assayed against standards in buffer. For assay in plasma it is recommended to add aprotinin-free control plasma to the standards to match the plasma sample dilution.

ABS 037-18 also forms an antibody pair with ABS 037-35 (as capture antibody) for sandwich ELISA of aprotinin at sample concentrations of 4-250 µg/mL. Both urine and plasma samples diluted 1/1000 can be assayed against standards in buffer. PBS-buffers are unsuitable for these assays and 0.2 M glycine sodium buffer, pH 8.8, is recommended.

CULTURE MEDIUM

RPMI 1640 with 2-10% fetal calf serum

FUSION PARTNER

SP2mIL6

IMMUNIZATION

Female NMRIxBALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

1. Mangano DT, Tudor IC, Dietzel C (2006) The risk associated with aprotinin in cardiac surgery. N. Engl. J. Med. 354: 353-365

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.