

Anti-Aprotinin

Mouse monoclonal antibody

Subclass: IgG1/k

CAT. NO.

ABS 037-18

Clone: 18

SPECIFICITY	ABS 037-18 binds bovine aprotinin immobilized on a solid phase or free in solution.
IMMUNOGEN	Aprotinin from bovine lung
TESTED APPLICATIONS	ELISA, WB
SPECIES REACTIVITY (POSITIVE)	Bovine
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	The epitope of ABS 037-18 is different from the epitopes of ABS 037-21 and ABS 037-35

PRESENTATION

Content:	Available in 400 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
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.

APPLICATION

ELISA: 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.

WB: ABS 037-18 can be used in Western blotting.

TARGET

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.

REFERENCES

CONDITIONS

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