

Product datasheet

Anti-Antithrombin III/ATIII antibody [EP5372] α b126598

Recombinant RabMAb

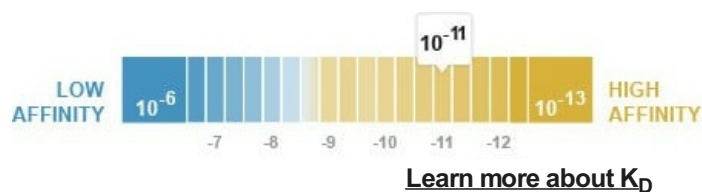
[10 References](#) [2 Images](#)

Overview

Product name	Anti-Antithrombin III/ATIII antibody [EP5372]
Description	Rabbit monoclonal [EP5372] to Antithrombin III/ATIII
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human plasma, Mouse lung, and Rat lung lysate.
General notes	<p>This product has switched from a hybridoma to recombinant production method on 31st May 2023.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 4.26 \times 10^{-11}$ M



Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP5372
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126598 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

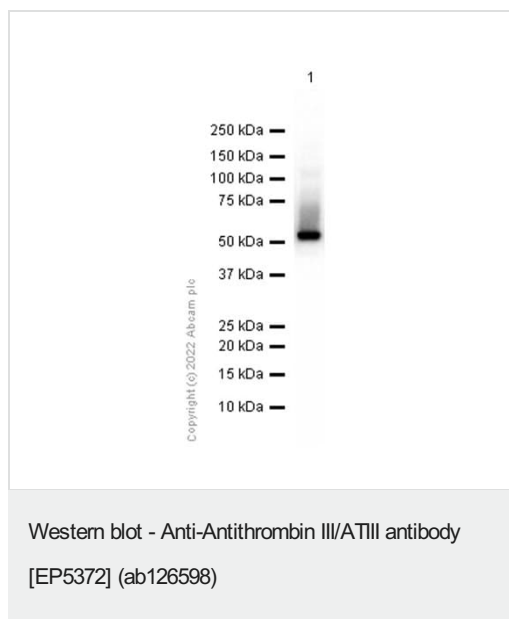
Application	Abreviews	Notes
WB		1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 52 kDa).

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function	Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade. AT-III inhibits thrombin as well as factors IXa, Xa and XIa. Its inhibitory activity is greatly enhanced in the presence of heparin.
Tissue specificity	Found in plasma.
Involvement in disease	Defects in SERPINC1 are the cause of antithrombin III deficiency (AT3D) [MIM:613118]. AT3D is an important risk factor for hereditary thrombophilia, a hemostatic disorder characterized by a tendency to recurrent thrombosis. AT3D is classified into 4 types. Type I: characterized by a 50% decrease in antigenic and functional levels. Type II: has defects affecting the thrombin-binding domain. Type III: alteration of the heparin-binding domain. Plasma AT-III antigen levels are normal in type II and III. Type IV: consists of miscellaneous group of unclassifiable mutations.
Sequence similarities	Belongs to the serpin family.
Post-translational modifications	Phosphorylation sites are present in the extracellular medium.
Cellular localization	Secreted > extracellular space.

Images



Anti-Antithrombin III/ATIII antibody [EP5372] (ab126598) at 1/10000 dilution + Human plasma lysate at 15 µg

Secondary

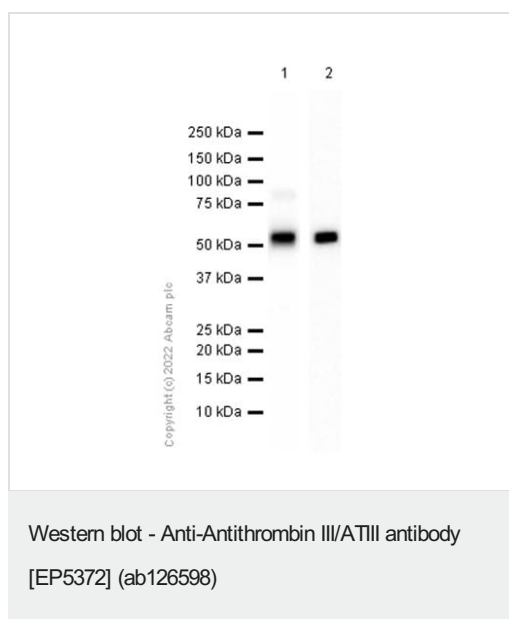
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with Human IgG at 1/2000 dilution

Predicted band size: 52 kDa

Observed band size: 52 kDa

Exposure time: 3 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



All lanes : Anti-Antithrombin III/ATIII antibody [EP5372] (ab126598) at 1/10000 dilution

Lane 1 : Mouse lung lysate

Lane 2 : Rat lung lysate

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/2000 dilution

Predicted band size: 52 kDa

Observed band size: 52 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: Lane 1: 3 seconds; Lane 2: 80 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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