

Product datasheet

Anti-alpha 1 Antitrypsin antibody ab231093

1 References [7 图像](#)**概述**

产品名称	Anti-alpha 1 Antitrypsin抗体
描述	兔多克隆抗体to alpha 1 Antitrypsin
宿主	Rabbit
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Mouse
免疫原	Recombinant full length protein (His-tag) corresponding to Mouse alpha 1 Antitrypsin aa 1 to the C-terminus. Expressed in E.coli. Database link: P07758

[Run BLAST with](#)[Run BLAST with](#)**阳性对照**

IHC-P: Mouse liver tissue. WB: Mouse heart, liver, kidney and testis lysates; Recombinant mouse alpha 1 Antitrypsin protein.

常规说明

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
纯度	Immunogen affinity purified
纯化说明	ab231093 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
克隆	多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab231093于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 46 kDa.

靶标

功能

Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.

Short peptide from AAT: reversible chymotrypsin inhibitor. It also inhibits elastase, but not trypsin. Its major physiological function is the protection of the lower respiratory tract against proteolytic destruction by human leukocyte elastase (HLE).

组织特异性

Ubiquitous. Expressed in leukocytes and plasma.

疾病相关

Alpha-1-antitrypsin deficiency

序列相似性

Belongs to the serpin family.

结构域

The reactive center loop (RCL) extends out from the body of the protein and directs binding to the target protease. The protease cleaves the serpin at the reactive site within the RCL, establishing a covalent linkage between the carboxyl group of the serpin reactive site and the serine hydroxyl of the protease. The resulting inactive serpin-protease complex is highly stable.

翻译后修饰

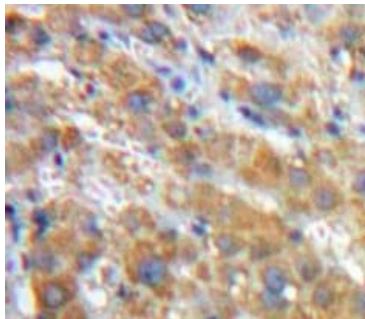
N-glycosylated. Differential glycosylation produces a number of isoforms. N-linked glycan at Asn-107 is alternatively di-antennary, tri-antennary or tetra-antennary. The glycan at Asn-70 is di-antennary with trace amounts of tri-antennary. Glycan at Asn-271 is exclusively di-antennary. Structure of glycans at Asn-70 and Asn-271 is Hex5HexNAc4. The structure of the antennae is Neu5Ac(alpha1-6)Gal(beta1-4)GlcNAc attached to the core structure Man(alpha1-6)[Man(alpha1-3)]Man(beta1-4)GlcNAc(beta1-4)GlcNAc. Some antennae are fucosylated, which forms a Lewis-X determinant.

Proteolytic processing may yield the truncated form that ranges from Asp-30 to Lys-418.

细胞定位

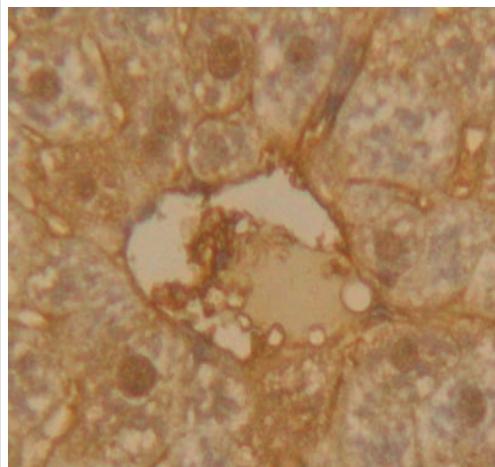
Secreted. Endoplasmic reticulum. The S and Z allele are not secreted effectively and accumulate intracellularly in the endoplasmic reticulum and Secreted, extracellular space, extracellular matrix.

图片



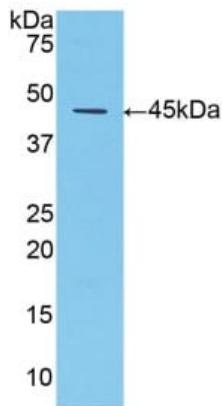
Formalin-fixed, paraffin-embedded mouse liver tissue stained for alpha 1 Antitrypsin using ab231093 at 20 µg/ml in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha 1 Antitrypsin antibody (ab231093)



Paraffin-embedded mouse liver tissue stained for alpha 1 Antitrypsin using ab231093 at 20 µg/ml in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha 1 Antitrypsin antibody (ab231093)



Anti-alpha 1 Antitrypsin antibody (ab231093) at 2 µg/ml + Recombinant mouse alpha 1 Antitrypsin protein

Predicted band size: 46 kDa

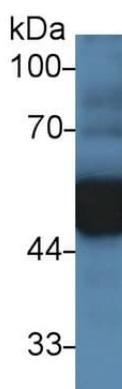
Western blot - Anti-alpha 1 Antitrypsin antibody
(ab231093)



Anti-alpha 1 Antitrypsin antibody (ab231093) at 2 µg/ml + Mouse heart lysate

Predicted band size: 46 kDa

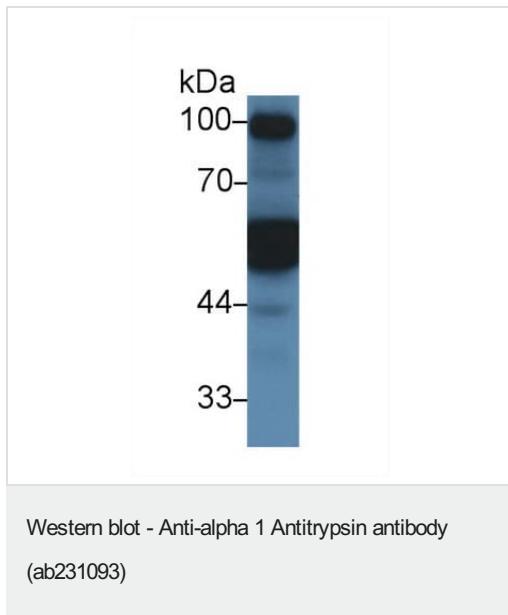
Western blot - Anti-alpha 1 Antitrypsin antibody
(ab231093)



Anti-alpha 1 Antitrypsin antibody (ab231093) at 2 µg/ml + Mouse liver lysate

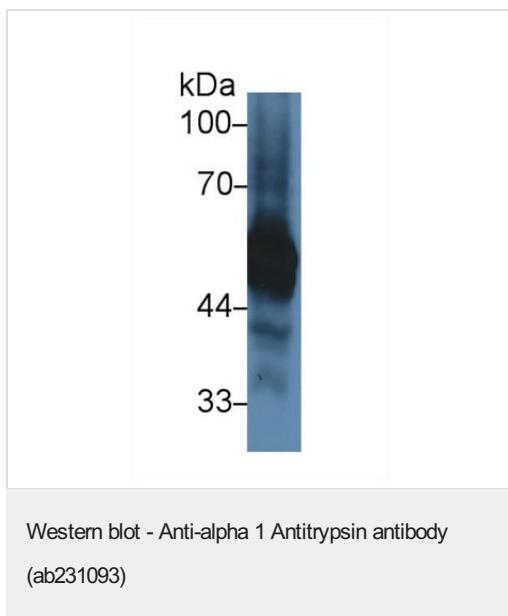
Predicted band size: 46 kDa

Western blot - Anti-alpha 1 Antitrypsin antibody
(ab231093)



Anti-alpha 1 Antitrypsin antibody (ab231093) at 2 µg/ml + Mouse kidney lysate

Predicted band size: 46 kDa



Anti-alpha 1 Antitrypsin antibody (ab231093) at 2 µg/ml + Mouse testis lysate

Predicted band size: 46 kDa

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