

Anti-Alpha 1 Microglobulin antibody ab153806

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

Overview

Product name	Anti-Alpha 1 Microglobulin antibody
Description	Rabbit polyclonal to Alpha 1 Microglobulin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment, corresponding to a region within amino acids 1-262 of Human Bikunin + Trypstatin (UniProt: P02760).
Positive control	293T and A431 whole cell lysates; Human Hepatoma tissue
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab153806 in the following tested applications.

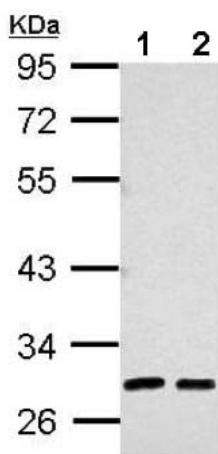
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 39 kDa.
IHC-P		1/100 - 1/1000.

Target

Function	<p>Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization.</p> <p>Trypstatin is a trypsin inhibitor.</p>
Tissue specificity	<p>Expressed by the liver and secreted in plasma. Alpha-1-microglobulin occurs in many physiological fluids including plasma, urine, and cerebrospinal fluid. Inter-alpha-trypsin inhibitor is present in plasma and urine.</p>
Sequence similarities	<p>In the N-terminal section; belongs to the calycin superfamily. Lipocalin family.</p> <p>Contains 2 BPTI/Kunitz inhibitor domains.</p>
Post-translational modifications	<p>The precursor is proteolytically processed into separately functioning proteins.</p> <p>3-hydroxykynurenine, an oxidized tryptophan metabolite that is common in biological fluids, reacts with Cys-53, Lys-111, Lys-137, and Lys-149 to form heterogeneous polycyclic chromophores including hydroxanthommatin. The reaction by alpha-1-microglobulin is autocatalytic; the human protein forms chromophore even when expressed in insect and bacterial cells. The chromophore can react with accessible cysteines forming non-reducible thioether cross-links with other molecules of alpha-1-microglobulin or with other proteins such as Ig alpha-1 chain C region 'Cys-352'.</p> <p>Heavy chains are interlinked with bikunin via a chondroitin 4-sulfate bridge to the their C-terminal aspartate.</p> <p>Addition of glycosaminoglycan chondroitin sulfate, allows cross-linking between the different components.</p>
Cellular localization	<p>Secreted.</p>

Images



Western blot - Anti-Alpha 1 Microglobulin antibody (ab153806)

All lanes : Anti-Alpha 1 Microglobulin antibody (ab153806) at 1/5000 dilution

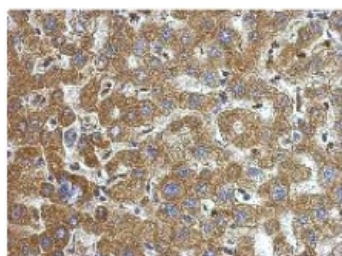
Lane 1 : 293T whole cell lysate

Lane 2 : A431 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 39 kDa

10% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Alpha 1 Microglobulin antibody (ab153806)

Immunohistochemical analysis of paraffin embedded Human hepatoma tissue labeling Alpha 1 Microglobulin with ab153806 at 1/500 dilution.

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