

Anti-Bikunin antibody ab180700

1 Image

Overview

Product name	Anti-Bikunin antibody
Description	Rabbit polyclonal to Bikunin
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	<p>Recombinant full length protein corresponding to Human Bikunin aa 20-352. Mature protein.</p> <p>Sequence:</p> <p>GPVPTPPDNIQVQENFNISRIYGKWYNLAIGSTCPWLKKIM DRMTVSTLV LGEGATEAEISMTSTRWRKGVCEETSGAYEKTDTDGKFLY HKS KWNITME SYVVHTNYDEYAIFLTKKFSRHHGPTITAKLYGRAPQLRETL LQDFRVVA QGVGIPEDSIFTMADRGECPGGEQEPELIPRVRRVLPQ EEEGSGGGQ LVTEVTKKEDSCQLGYSAGPCMGMTSRYFYNGTSMACET FQYGGCMGNGN NFVTEKECLQTCRTVAACNLPVRGPCRAFIQLWAFDAVK GKCVLFPYGG CQGNGNKFYSEKECREYCGVPGDGDEELLRFSN</p>

Database link: [P02760](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control WB: CEM and U-251MG cell lysates.

General notes

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

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab180700 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

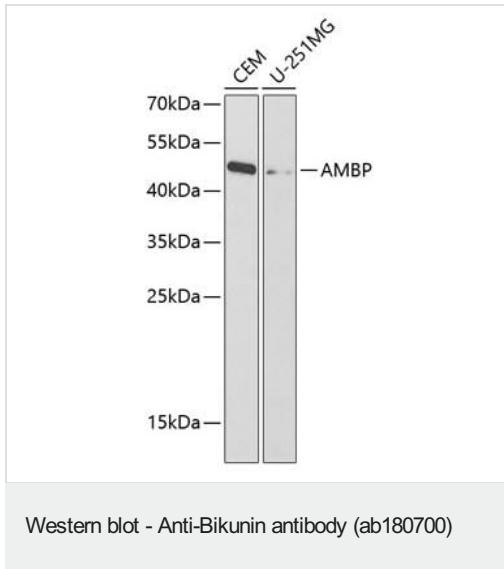
Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 39 kDa.

Target

Function	Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization. Trypstatin is a trypsin inhibitor.
Tissue specificity	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.
Sequence similarities	In the N-terminal section; belongs to the calycin superfamily. Lipocalin family. Contains 2 BPTI/Kunitz inhibitor domains.
Post-translational modifications	The precursor is proteolytically processed into separately functioning proteins. 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'. Heavy chains are interlinked with bikunin via a chondroitin 4-sulfate bridge to the their C-terminal aspartate. Addition of glycosaminoglycan chondroitin sulfate, allows cross-linking between the different components.
Cellular localization	Secreted.
Form	Bikunin, the light chain of the proteinase inhibitors inter-alpha-inhibitor and pre-alpha-inhibitor, is synthesized in the liver. Its biological function is unclear but it has been shown to inhibit proteases

and to have additional activities in vitro. Bikunin is translated as a precursor protein from the same mRNA as alpha 1-microglobulin. This cosynthesis is unique compared to other proteins since they have no known functional connection.

Images



All lanes : Anti-Bikunin antibody (ab180700) at 1/1000 dilution

Lane 1 : CEM cell lysate

Lane 2 : U-251MG cell lysate

Lysates/proteins at 25 µg per lane.

Secondary

All lanes : HRP Goat AntiRabbit IgG (H+L)

Predicted band size: 39 kDa

Blocking buffer: 3% nonfat dry milk in TBST.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors