



Product datasheet

Anti-Factor B antibody ab231072

5 Images

Overview

Product name	Anti-Factor B antibody
Description	Rabbit polyclonal to Factor B
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat
Immunogen	<p>Recombinant fragment (His-tag) corresponding to Rat Factor B aa 34-159. (N-terminal His-tag and GST-tag. Expressed in E.coli).</p> <p>Sequence:</p> <p>VSCSLEGVEIKGGSFQLLQDQALEYLCPSGFYPYPVQTR TCKSTGSWSV LQTRDQKIVKKAECRAIRCPRPQDFENGFEWPRSPYNNLS DQISFQCYDG YTLRGSANRTCQENGRWDGQTAICDD</p> <p>Database link: G3V615</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	WB: Recombinant rat Factor B protein; Rat serum and blood cell lysate; Mouse serum. IHC-P: Rat liver tissue.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions,</p>

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, as well as 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: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	ab231072 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab231072** 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
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 85 kDa.

Target

Function	Factor B which is part of the alternate pathway of the complement system is cleaved by factor D into 2 fragments: Ba and Bb. Bb, a serine protease, then combines with complement factor 3b to generate the C3 or C5 convertase. It has also been implicated in proliferation and differentiation of preactivated B-lymphocytes, rapid spreading of peripheral blood monocytes, stimulation of lymphocyte blastogenesis and lysis of erythrocytes. Ba inhibits the proliferation of preactivated B-lymphocytes.
Involvement in disease	Defects in CFB are a cause of susceptibility to hemolytic uremic syndrome atypical type 4 (AHUS4) [MIM:612924]. An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Note=Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the

phenotype.

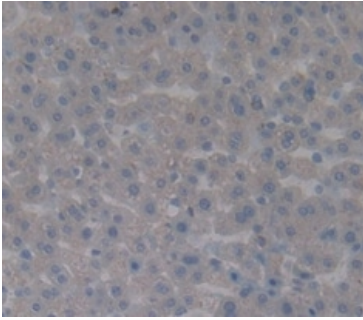
Sequence similarities

Belongs to the peptidase S1 family.
Contains 1 peptidase S1 domain.
Contains 3 Sushi (CCP/SCR) domains.
Contains 1 VWFA domain.

Cellular localization

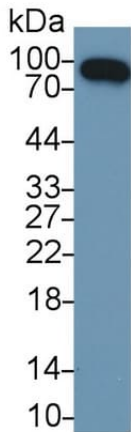
Secreted.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Factor B antibody (ab231072)

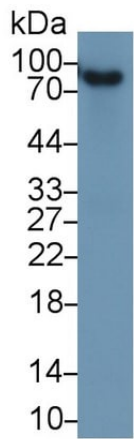
Formalin-fixed, paraffin-embedded rat liver tissue stained for Factor B using ab231072 at 20 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.



Western blot - Anti-Factor B antibody (ab231072)

Anti-Factor B antibody (ab231072) at 1 $\mu\text{g/ml}$ + Rat serum

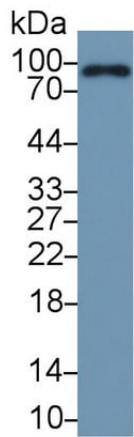
Predicted band size: 85 kDa



Western blot - Anti-Factor B antibody (ab231072)

Anti-Factor B antibody (ab231072) at 2 µg/ml + Rat blood cell lysate

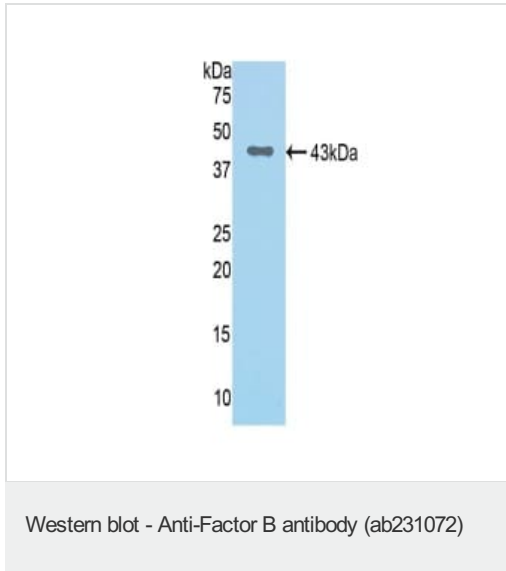
Predicted band size: 85 kDa



Western blot - Anti-Factor B antibody (ab231072)

Anti-Factor B antibody (ab231072) at 1 µg/ml + Mouse serum

Predicted band size: 85 kDa



Anti-Factor B antibody (ab231072) at 2 µg/ml + Recombinant rat Factor B protein

Predicted band size: 85 kDa

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

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