

Product datasheet

Anti-C2 antibody ab231651

6 Images

Overview

Product name	Anti-C2 antibody
Description	Rabbit polyclonal to C2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Rat Predicted to work with: Mouse 
Immunogen	Recombinant fragment (His-tag) corresponding to Rat C2 aa 423-723. (Expressed in E.coli). Sequence: DVDWKELNELGSKKDGERHAFILQDAKAVQQVFEHIL DVSKLTDTICGVG NMSVNASDQERTPWQVTFKPKSKETCQGLISDQWW LTAAHCFHDAQMED RHLWRVIVGDPTSHHGKEFHVEEVLVAPGFNVHAKQS QGISEFYADDIAL LKLSQRVKMSSHARPICLPCTV/GANMALRRSPGSTCK DHETELLSQQKVP AHFVALNGNRMNINLRTGPERTSCIEAVSQNKGSFPGL TNVSEVVTDQFL CSGMEGDDSPCKGESGGAVFLERRYRFFQVGLVSW GLFDPCHGSSNKNL R Database link: Q6MG73 <div style="text-align: right;">  Run BLAST with  Run BLAST with </div>
Positive control	IHC-P: Rat testis, stomach, small intestine and heart tissues. WB: Rat serum; Recombinant rat C2 protein.

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	ab231651 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 **ab231651** in the following tested applications.

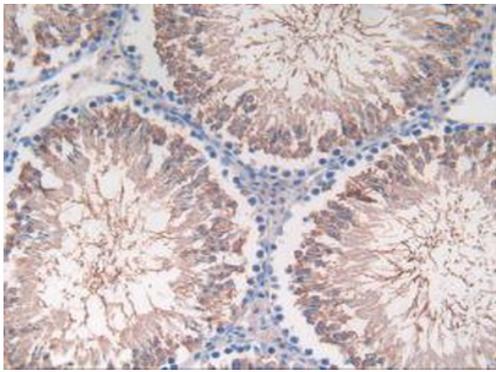
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 84 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

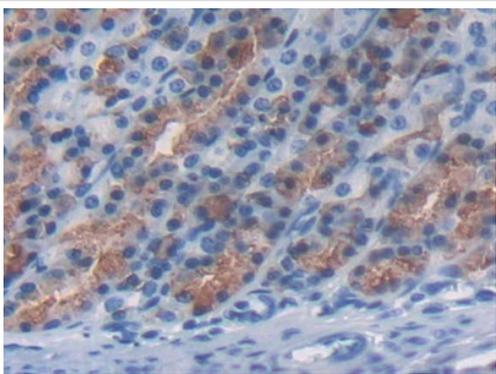
Function	Component C2 which is part of the classical pathway of the complement system is cleaved by activated factor C1 into two fragments: C2b and C2a. C2a, a serine protease, then combines with complement factor 4b to generate the C3 or C5 convertase.
Involvement in disease	Defects in C2 are the cause of complement component 2 deficiency (C2D) [MIM:217000]. A deficiency of the complement classical pathway associated with the development of autoimmune disorders, mainly systemic lupus erythematosus. Skin and joint manifestations are common and renal disease is relatively rare. Patients with complement component 2 deficiency are also reported to have recurrent or invasive infections.
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



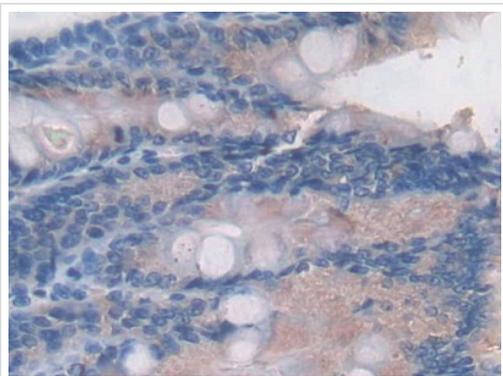
Paraffin-embedded rat testis tissue stained for C2 using ab231651 at 20 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C2 antibody (ab231651)



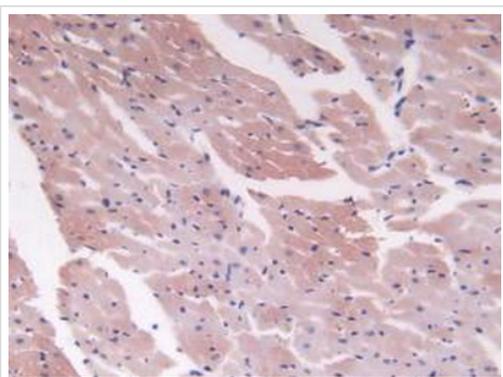
Paraffin-embedded rat stomach tissue stained for C2 using ab231651 at 20 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C2 antibody (ab231651)



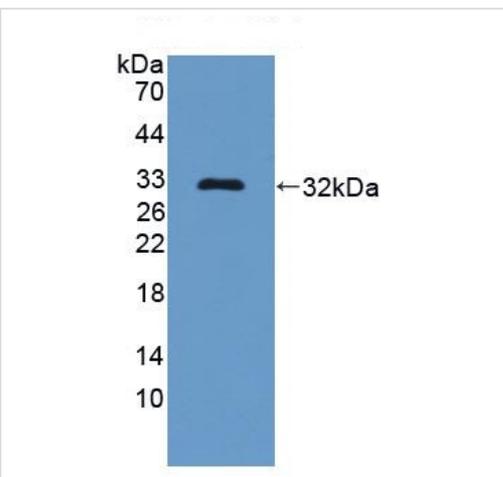
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C2 antibody (ab231651)

Paraffin-embedded rat small intestine tissue stained for C2 using ab231651 at 20 µg/ml in immunohistochemical analysis. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C2 antibody (ab231651)

Paraffin-embedded rat heart tissue stained for C2 using ab231651 at 20 µg/ml in immunohistochemical analysis. DAB staining.



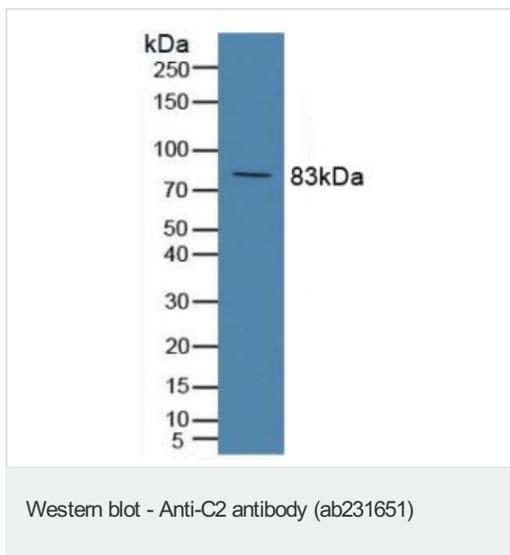
Western blot - Anti-C2 antibody (ab231651)

Anti-C2 antibody (ab231651) at 1 µg/ml + Recombinant rat C2 protein

Secondary

HRP-Linked Guinea pig Anti-Rabbit at 1/2000 dilution

Predicted band size: 84 kDa



Anti-C2 antibody (ab231651) at 1 µg/ml + Rat serum

Secondary

HRP-Linked Guinea pig Anti-Rabbit at 1/2000 dilution

Predicted band size: 84 kDa

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