

Product datasheet

Anti-C9 antibody [EPR11232-82] ab173302

Recombinant RabMAb

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Overview

Product name	Anti-C9 antibody [EPR11232-82]
Description	Rabbit monoclonal [EPR11232-82] to C9
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Recombinant fragment within Human Complement C9. The exact sequence is proprietary. Database link: P02748
Positive control	WB: Human serum lysates; IHC-P: human colon and spleen tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR11232-82

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab173302 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

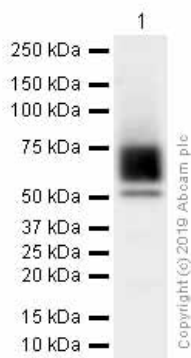
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 72 kDa (predicted molecular weight: 63 kDa).
IHC-P		1/10000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> . For unpurified use at 1/100 - 1/200.

Application notes Is unsuitable for IP.

Target

Function	Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. C9 is the pore-forming subunit of the MAC.
Tissue specificity	Plasma.
Involvement in disease	Defects in C9 are a cause of complement component 9 deficiency (C9D) [MIM:613825]. A rare defect of the complement classical pathway associated with susceptibility to severe recurrent infections, predominantly by Neisseria gonorrhoeae or Neisseria meningitidis.
Sequence similarities	Belongs to the complement C6/C7/C8/C9 family. Contains 1 EGF-like domain. Contains 1 LDL-receptor class A domain. Contains 1 MACPF domain. Contains 1 TSP type-1 domain.
Post-translational modifications	Thrombin cleaves factor C9 to produce C9a and C9b. Phosphorylation sites are present in the extracellular medium.
Cellular localization	Secreted. Cell membrane. Secreted as soluble monomer. Oligomerizes at target membranes, forming a pre-pore. A conformation change then leads to the formation of a 100 Angstrom diameter pore.

Images



Western blot - Anti-Complement C9 antibody
[EPR11232-82] (ab173302)

Anti-C9 antibody [EPR11232-82] (ab173302) at 1/10000 dilution
(Purified) + Human serum lysates at 15 µg

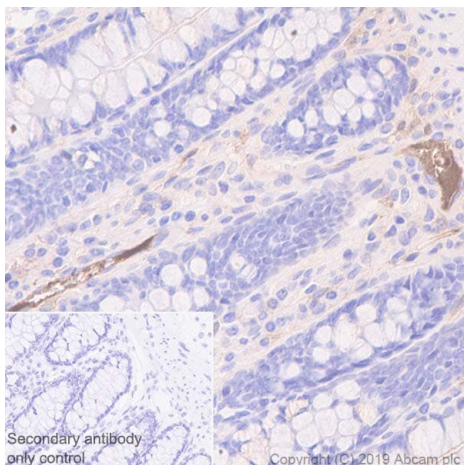
Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with
human IgG at 1/2000 dilution

Predicted band size: 63 kDa

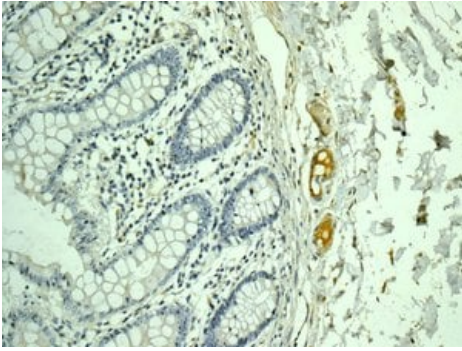
Observed band size: 60-70 kDa

The molecular weight observed is consistent with what has been
described in PMID: 29767720



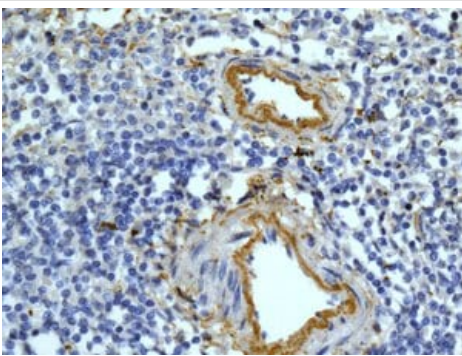
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Complement C9 antibody
[EPR11232-82] (ab173302)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded
sections) analysis of human colon tissue sections labeling
Complement C9 with purified ab173302 at 1/10,000 dilution (0.07
µg/ml). Heat mediated antigen retrieval was performed using
ab93684 (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step
HRP Polymer (ready to use) was used as the secondary antibody.
Negative control: PBS instead of the primary antibody. Hematoxylin
was used as a counterstain.



Immunohistochemical analysis of paraffin embedded Human colon tissue labeling Complement C9 with ab173302 (unpurified) at 1/100.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Complement C9 antibody [EPR11232-82] (ab173302)



Immunohistochemical analysis of paraffin embedded Human spleen tissue labeling Complement C9 with ab173302 (unpurified) at 1/100.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Complement C9 antibody [EPR11232-82] (ab173302)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Complement C9 antibody [EPR11232-82] (ab173302)

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