

## Product datasheet

### Anti-C9 antibody ab67040

[1 Image](#)

#### Overview

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<b>Product name</b>	Anti-C9 antibody
<b>Description</b>	Rabbit polyclonal to C9
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human C9 aa 500 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab94838</a> )
<b>Positive control</b>	Recombinant Human C9 protein ( <a href="#">ab114199</a> ) can be used as a positive control in WB. This antibody gave a positive signal in the following tissue lysates: Human placenta; Human plasma total protein
<b>General notes</b>	<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&amp;As</p>

#### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

**Clonality** Polyclonal

**Isotype** IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab67040 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 1 µg/ml. Detects a band of approximately 74 kDa (predicted molecular weight: 63 kDa).

## Target

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**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*.

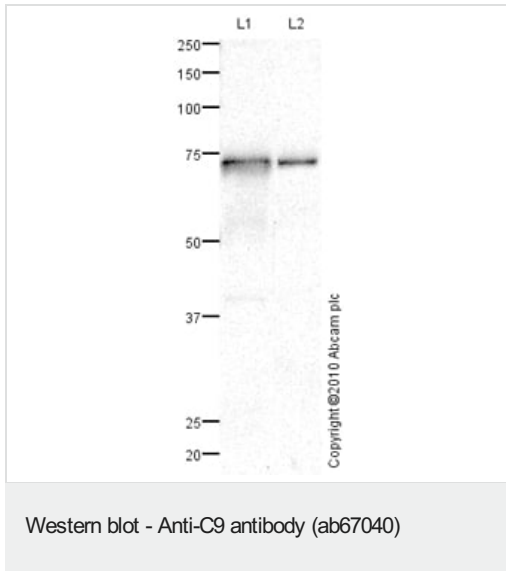
**Sequence similarities** Belongs to the complement C6/C7/C8/C9 family.  
Contains 1 EGF-like domain.  
Contains 1 LDL-receptor class A domain.  
Contains 1 MACPF domain.  
Contains 1 TSP type-1 domain.

**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

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**All lanes :** Anti-C9 antibody (ab67040) at 1 µg/ml

**Lane 1 :** Human Plasma Total Protein Lysate

**Lane 2 :** Human placenta tissue lysate - total protein ([ab29745](#))

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 63 kDa

**Observed band size:** 74 kDa

**Additional bands at:** 40 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 16 minutes

Human Complement component C9 precursor contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted. The 74 kDa band observed is also comparable to the molecular weight seen with other commercially available antibodies to C9.

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

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