abcam

Product datasheet

Anti-C9 antibody [EPR11232] ab168345

Recombinant RabMAb

1 References 4 Images

Overview

Product name	Anti-C9 antibody [EPR11232]
Description	Rabbit monoclonal [EPR11232] to C9
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IP **Unsuitable for:** ICC/IF
Species reactivity	**Reacts with:** Human **Does not react with:** Mouse, Rat
Immunogen	Recombinant fragment corresponding to Human C9. Database link: P02748
Positive control	Human fetal liver, Human angioneoplasm, Human placenta, Human serum and Human plasma lysates, Human lung tissue
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR11232
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab168345 in the following tested applications.

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

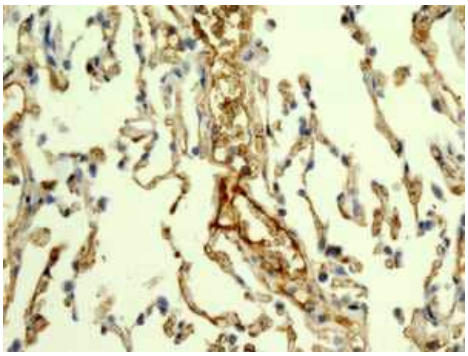
Application	Abreviews	Notes
WB		1/1000 - 1/5000. Predicted molecular weight: 63 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/10 - 1/100.

Application notes Is unsuitable for ICC/IF.

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 extracelllular 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.

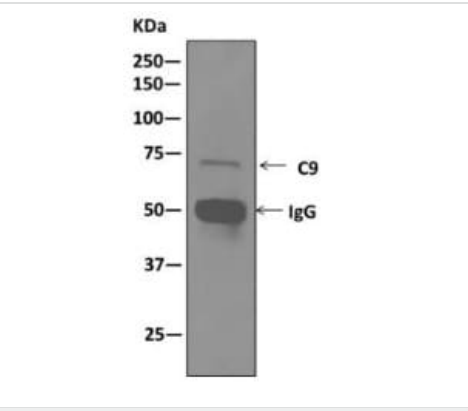
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C9 antibody [EPR11232] (ab168345)

Immunohistochemical analysis of paraffin embedded Human lung tissue labeling C9 with ab168345 at a 1/100 dilution.

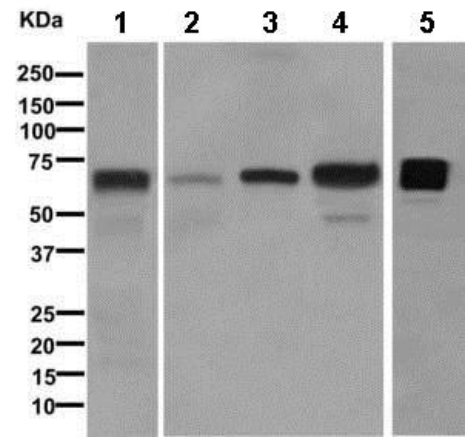
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-C9 antibody [EPR11232] (ab168345)

Immunoprecipitation: Western blot analysis on immunoprecipitation pellet from Human plasma cell lysate using ab168345 at a 1/10 dilution.

Anti-C9 antibody [EPR11232] (ab168345) at 1/10 dilution + Human plasma cell lysate



Western blot - Anti-C9 antibody [EPR11232] (ab168345)

All lanes : Anti-ZNF239 antibody (ab118345) at 1/1000 dilution

Lane 1 : Human fetal liver lysate
Lane 2 : Human angioneoplasm lysate
Lane 3 : Human placenta lysate
Lane 4 : Human serum lysate
Lane 5 : Human plasma lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 63 kDa

Anti-C9 antibody [EPR11232] (ab168345)

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