abcam

Product datasheet

Anti-C9 antibody ab92690

3 图像

概述

产品名称	Anti-C9抗体
描述	兔多克隆抗体to C9
宿主	Rabbit
经测试应用	**适用于:** ELISA, IHC-P, WB, ICC/IF
种属反应性	**与反应:** Human **不与反应:** Mouse
免疫原	Synthetic peptide derived from an internal region of Human C9.
阳性对照	COLO cell lysate IHC-P (FFPE): Human Liver (Normal) tissue.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg^{2+} and Ca^{2+}), 150mM Sodium chloride, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab92690于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ELISA		1/40000.
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用	Ab评论	说明
WB		1/500 - 1/1000. Predicted molecular weight: 63 kDa.
ICC/IF		Use a concentration of 1 µg/ml.

靶标

功能

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.

组织特异性

Plasma.

疾病相关

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.

序列相似性

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.

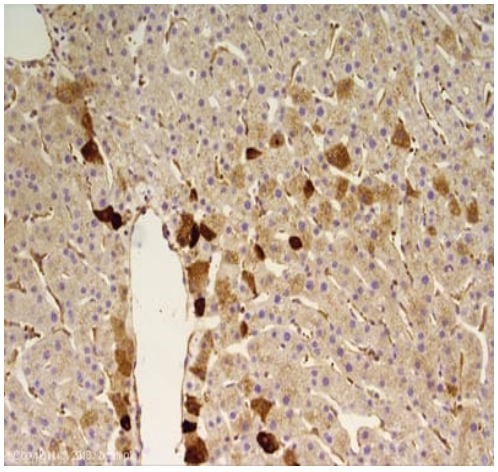
翻译后修饰

Thrombin cleaves factor C9 to produce C9a and C9b.
Phosphorylation sites are present in the extracelllular medium.

细胞定位

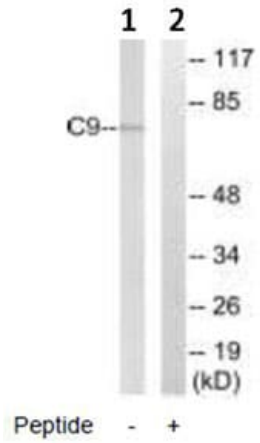
Secreted. Cell membrane. Secreted as soluble monomer. Oligomerizes at target membranes, forming a pre-pore. A conformation change then leads to the formation of a 100 Angstrom diameter pore.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C9 antibody (ab92690)

IHC image of C9 staining in Human Liver formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab92690, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



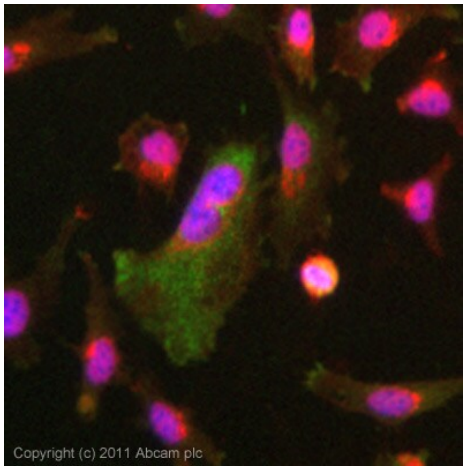
Western blot - Anti-C9 antibody (ab92690)

All lanes : Anti-C9 antibody (ab92690) at 1/500 dilution

Lane 1 : COLO cell lysate
Lane 2 : COLO cell lysate with blocking peptide at 10 µg

Lysates/proteins at 30 µg per lane.

Predicted band size: 63 kDa



Immunocytochemistry/ Immunofluorescence - Anti-C9 antibody (ab92690)

ICC/IF image of ab92690 stained HeLa cells. The cells were 4% formaldehyde (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab92690, 1µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899** Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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