abcam

Product datasheet

Anti-C9 antibody [53] ab17931

4 References 2 图像

概述

产品名称	Anti-C9抗体[53]
描述	小鼠单克隆抗体[53] to C9
宿主	Mouse
经测试应用	**适用于:** ELISA, WB, Flow Cyt, IHC-P
种属反应性	**与反应:** Human
免疫原	Purified, full length native human complement factor C9 protein.
常规说明	ab17931 recognizes C9 in human serum diluted 1:50 in Tris buffer (20 mM Tris-base, 1 mM MgCl2, 1 mM CaCl2 and 140 mM NaCl) and incubated for 2 hours at 37°C using a human IgM coated (10 µg/mL overnight at 4°C, blocked with PBS 7.2 + 1% BSA for 1 hour).

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.

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&As |

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.097% Sodium azide Constituents: 0.0268% PBS, 0.754% Sodium chloride
纯度	Protein G purified
纯化说明	Protein A/G purified.
Primary antibody说明	ab17931 recognizes C9 in human serum diluted 1:50 in Tris buffer (20 mM Tris-base, 1 mM MgCl2, 1 mM CaCl2 and 140 mM NaCl) and incubated for 2 hours at 37°C using a human IgM coated (10 µg/mL overnight at 4°C, blocked with PBS 7.2 + 1% BSA for 1 hour) ELISA plate.
克隆	单克隆

克隆编号	53
骨髓瘤	Sp2
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee　　**Abpromise™承诺保证使用ab17931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		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 63 kDa. PubMed: 20707004
Flow Cyt		Use 1µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P		Use a concentration of 2 µg/ml.

靶标

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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
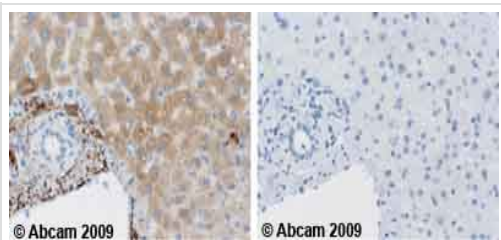
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C9 antibody [53] (ab17931)

Ab17931 staining human normal liver. Staining is localized to the cytoplasm.

Left panel: with primary antibody at 2 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffer, EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.
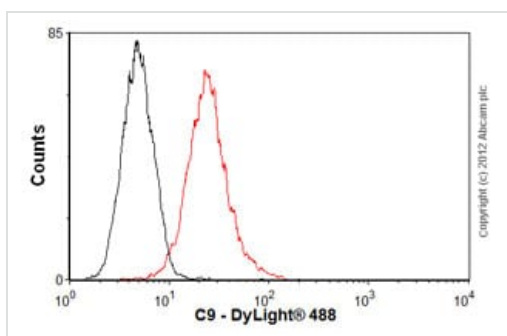
Flow Cytometry - Anti-C9 antibody [53] (ab17931)

Overlay histogram showing HeLa cells stained with ab17931 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab17931, 1μg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2μg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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