

Anti-C3 / C3a antibody [EPR2987(2)(ABC)(B)] ab171080

重组 RabMAb

3 图像

概述

产品名称	Anti-C3 / C3a抗体[EPR2987(2)(ABC)(B)]
描述	兔单克隆抗体[EPR2987(2)(ABC)(B)] to C3 / C3a
宿主	Rabbit
经测试应用	适用于: WB, IP 不适用于: Flow Cyt, ICC/IF or IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human C3/ C3a aa 850-950. The exact sequence is proprietary. Database link: P01024
阳性对照	Human plasma, fetal liver, fetal kidney, HepG2 and Human milk lysates.
常规说明	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 . Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR2987(2)(ABC)(B)
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab171080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
WB		1/1000 - 1/10000. Predicted molecular weight: 187 kDa.
IP		1/10 - 1/100.

应用说明

Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

靶标

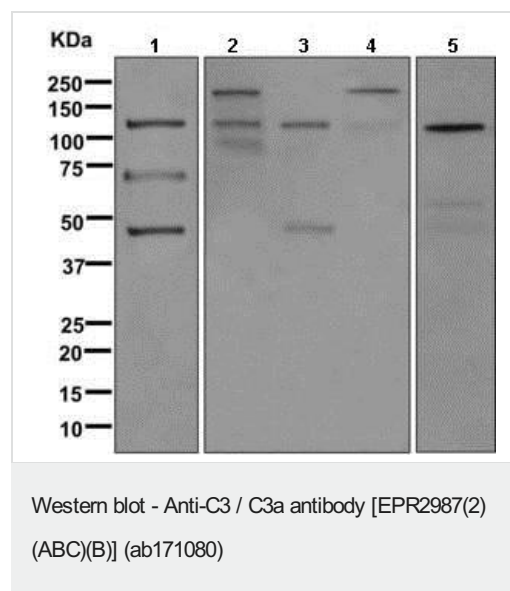
功能	<p>C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.</p> <p>Derived from proteolytic degradation of complement C3, C3a anaphylatoxin is a mediator of local inflammatory process. In chronic inflammation, acts as a chemoattractant for neutrophils (By similarity). It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes.</p> <p>C3-beta-c: Acts as a chemoattractant for neutrophils in chronic inflammation.</p> <p>Acylation stimulating protein: adipogenic hormone that stimulates triglyceride (TG) synthesis and glucose transport in adipocytes, regulating fat storage and playing a role in postprandial TG clearance. Appears to stimulate TG synthesis via activation of the PLC, MAPK and AKT signaling pathways. Ligand for C5AR2. Promotes the phosphorylation, ARRB2-mediated internalization and recycling of C5AR2 (PubMed:8376604, PubMed:2909530, PubMed:9059512, PubMed:10432298, PubMed:15833747, PubMed:16333141, PubMed:19615750).</p>
组织特异性	<p>Plasma. The acylation stimulating protein (ASP) is expressed in adipocytes and released into the plasma during both the fasting and postprandial periods.</p>
疾病相关	<p>Complement component 3 deficiency</p> <p>Macular degeneration, age-related, 9</p> <p>Hemolytic uremic syndrome atypical 5</p> <p>Increased levels of C3 and its cleavage product ASP, are associated with obesity, diabetes and coronary heart disease. Short-term endurance training reduces baseline ASP levels and subsequently fat storage.</p>
序列相似性	<p>Contains 1 anaphylatoxin-like domain.</p> <p>Contains 1 NTR domain.</p>
翻译后修饰	<p>C3b is rapidly split in two positions by factor I and a cofactor to form iC3b (inactivated C3b) and C3f which is released. Then iC3b is slowly cleaved (possibly by factor I) to form C3c (beta chain + alpha' chain fragment 1 + alpha' chain fragment 2), C3dg and C3f. Other proteases produce other fragments such as C3d or C3g. C3a is further processed by carboxypeptidases to release the C-</p>

terminal arginine residue generating the acylation stimulating protein (ASP). Levels of ASP are increased in adipocytes in the postprandial period and by insulin and dietary chylomicrons. Phosphorylated by FAM20C in the extracellular medium.

细胞定位

Secreted.

图片



All lanes : Anti-C3 / C3a antibody [EPR2987(2)(ABC)(B)] (ab171080) at 1/1000 dilution

Lane 1 : Human plasma lysate

Lane 2 : Human fetal liver tissue lysate

Lane 3 : Human fetal kidney tissue lysate

Lane 4 : HepG2 cell lysate

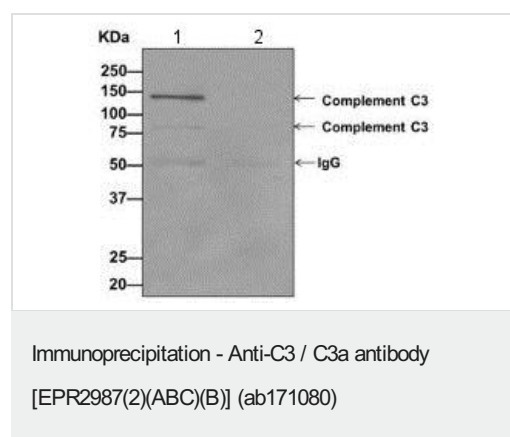
Lane 5 : Human milk lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labeled goat anti-rabbit at 1/2000 dilution

Predicted band size: 187 kDa



Western blot analysis on immunoprecipitation pellet from fetal kidney lysate (Lane 1) or 1X PBS (negative control) (Lane 2) labeling C3 / C3a using ab171080 and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

Lane 1: Primary: ab171080, 1/1000 dilution

Sample: Fetal kidney tissue lysate

Secondary: HRP-conjugated anti-rabbit IgG

Lane 2: Primary: ab171080, 1/1000 dilution

Sample: 1 X PBS

Secondary: HRP-conjugated anti-rabbit IgG

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-C3 / C3a antibody [EPR2987(2)(ABC)(B)]
(ab171080)

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

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