abcam

Product datasheet

Anti-C4 binding protein antibody ab8788

★★★★★ 2 Abreviews　4 References　画像数 1

製品の概要

製品名	Anti-C4 binding protein antibody
製品の詳細	Sheep polyclonal to C4 binding protein
由来種	Sheep
特異性	This product gives a single arc when tested by IEP against fresh human plasma. Identity has been confirmed by double diffusion (Ouchterlony) vs fresh human plasma and a known anti human C4BP.
アプリケーション	**適用あり:** WB, Flow Cyt, Double Immunodiffusion, Immunoelectrophoresis, Other
種交差性	**交差種:** Human
免疫原	Human C4BP purified from plasma and shown to be homogeneous by SDS-PAGE.
特記事項	C4-binding protein (C4BP) is a multimeric protein, synthesised in the liver. The most abundant form consists of seven alpha-chains (70kDa) and one beta-chain (45kDa) all linked by disulphide bonds to form the native protein with a molecular weight of 570kDa. It is is a plasma protein with a concentration of about 150mg/L in normal plasma. It is a component of the classical complement pathway. C4BP down regulates complement activity in two ways, it binds to C4b thus inhibiting the formation of C3-convertase (C4bC3a) and it accelerates the decay of existing convertases. C4BP acts as a cofactor in Factor I mediated C4b proteolysis. C4BP may also have a regulatory role in the coagulation system, by binding to Protein S. When bound toC4BP, Protein S is inactive.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.1% Sodium Azide Constituents: Glycine buffered saline, 0.1% EACA, 0.01% Benzamidine, 1mM EDTA, pH 7.4
精製度	IgG fraction
特記事項(精製)	Antiserum is prepared by immunisation of sheep with human C4BP and, if necessary, adsorbed tomonospecificity by use of solid-phase adsorbents. An immunoglobulin fraction is then produced. The titre is adjusted so that inter-batch variation is within 10%. The productis 0.2µm filtered.

一次抗体 備考	C4-binding protein (C4BP) is a multimeric protein, synthesised in the liver. The most abundant form consists of seven alpha-chains (70kDa) and one beta-chain (45kDa) all linked by disulphide bonds to form the native protein with a molecular weight of 570kDa. It is is a plasma protein with a concentration of about 150mg/L in normal plasma. It is a component of the classical complement pathway. C4BP down regulates complement activity in two ways, it binds to C4b thus inhibiting the formation of C3-convertase (C4bC3a) and it accelerates the decay of existing convertases. C4BP acts as a cofactor in Factor I mediated C4b proteolysis. C4BP may also have a regulatory role in the coagulation system, by binding to Protein S. When bound toC4BP, Protein S is inactive.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG
軽鎖の種類	unknown

アプリケーション

Our Abpromise guarantee covers the use of **ab8788** in the following tested applications.

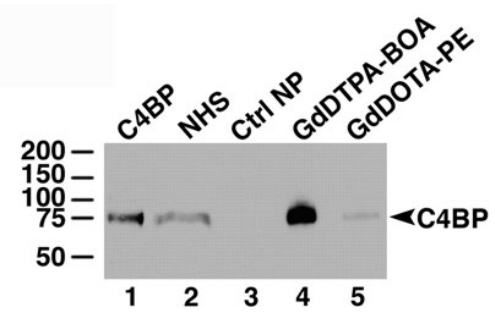
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★☆	Use at an assay dependent concentration.
Flow Cyt	★★★★★	Use at an assay dependent concentration. ab37385 - Sheep polyclonal IgG, is suitable for use as an isotype control with this antibody.
Double Immunodiffusion		Use at an assay dependent concentration.
Immunoelectrophoresis		Use at an assay dependent concentration.
Other		Use at an assay dependent concentration.

ターゲット情報

機能	Controls the classical pathway of complement activation. It binds as a cofactor to C3b/C4b inactivator (C3bINA), which then hydrolyzes the complement fragment C4b. It also accelerates the degradation of the C4bC2a complex (C3 convertase) by dissociating the complement fragment C2a. It also interacts with anticoagulant protein S and with serum amyloid P component. The beta chain binds protein S.
配列類似性	Contains 3 Sushi (CCP/SCR) domains.
細胞内局在	Secreted.

画像



Western blot - Anti-C4 binding protein antibody (ab8788)

Image from Pham CT et al, J Biol Chem. 2011 Jan 7;286(1):123-30. Epub 2010 Nov 3, Fig 8. DOI 10.1074/jbc.M110.180760

Nanoparticles (NP)(10% v/v) were incubated in 20% human serum for up to 30 minutes at 37 °C in GVB2+ buffer (20 µl total). In some cases, heat-inactivated serum or serum deficient in a particular C protein was used. Where indicated, C protein deficiencies were compensated with the relevant purified protein. Reactions were terminated by addition of 80 µl of cold (4 °C) EDTA buffer. Samples were centrifuged at 960 × g for 15 minutes, and supernatants were reserved. NP pellets were resuspended in 100 µl of EDTA buffer and washed three times in EDTA buffer. Sample supernatant (1 µl in 24 µl of SDS running buffer) and washed nanoparticles (entire pellet resuspended in SDS running buffer) were fractionated by SDS-PAGE under reducing conditions, transferred to PVDF, and probed with ab8788 at a 1/1000 dilution followed by the appropriate horseradish peroxidase-conjugated secondary antibody at a 1/2000 to 1/10,000 dilution. The protein bands were then visualized with a SuperSignal West Pico Che

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