

Product datasheet

Anti-CD46 antibody [MEM-258] (Allophycocyanin) ab60904

画像数 1

製品の概要

製品名	Anti-CD46 antibody [MEM-258] (Allophycocyanin)
製品の詳細	Mouse monoclonal [MEM-258] to CD46 (Allophycocyanin)
由来種	Mouse
標識	Allophycocyanin. Ex: 645nm, Em: 660nm
特異性	ab60904 recognizes an epitope on SCR4 (the membrane-proximal SCR) domain of CD46.
アプリケーション	適用あり: ICC/IF, Flow Cyt
種交差性	交差種: Cow, Human
免疫原	HPB-ALL human T cell line
ポジティブ・コントロール	Human blood cells This antibody gave a positive result in IF/ICC when used in the following formaldehyde/methanol fixed cell lines: DU145.
特記事項	Avoid prolonged exposure to light. Short-term exposure to room temperature should not affect the quality of the reagent.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	Preservative: 0.097% Sodium azide Constituent: 1% BSA 0.2% high-grade protease free BSA
精製度	Size exclusion
特記事項(精製)	Antibodies were purified by protein A (G) affinity chromatography before conjugation(purity: >95% by SDS-PAGE). The conjugated antibodies were purified by size exclusion chromatography.
ポリ/モノ	モノクローナル
クローン名	MEM-258
アイソタイプ	IgG1

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab60904** in the following tested applications.

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

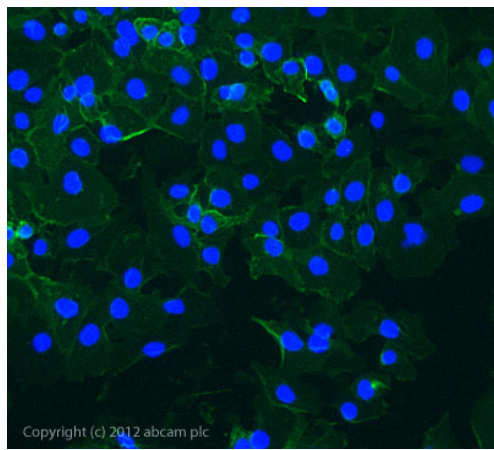
アプリケーション	Abreviews	特記事項
ICC/IF		1/10.
Flow Cyt		Use 10µl for 10 ⁶ cells. ab37391 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能	Acts as a cofactor for complement factor I, a serine protease which protects autologous cells against complement-mediated injury by cleaving C3b and C4b deposited on host tissue. May be involved in the fusion of the spermatozoa with the oocyte during fertilization. Also acts as a costimulatory factor for T-cells which induces the differentiation of CD4+ into T-regulatory 1 cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity. A number of viral and bacterial pathogens seem to exploit this property and directly induce an immunosuppressive phenotype in T-cells by binding to CD46.
組織特異性	Expressed by all cells except erythrocytes.
関連疾患	Defects in CD46 are a cause of susceptibility to hemolytic uremic syndrome atypical type 2 (AHUS2) [MIM:612922]. An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Note=Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype. Patients with CD46 mutations seem to have an overall better prognosis compared to patients carrying CFH mutations.
配列類似性	Contains 4 Sushi (CCP/SCR) domains.
ドメイン	Sushi domains 1 and 2 are required for interaction with human adenovirus B PV/FIBER protein and with Measles virus H protein. Sushi domains 2 and 3 are required for Herpesvirus 6 binding. Sushi domain 3 is required for Neisseria binding. Sushi domains 3 and 4 are required for interaction with Streptococcus pyogenes M protein and are the most important for interaction with C3b and C4b.
翻訳後修飾	<p>N-glycosylated on Asn-83; Asn-114 and Asn-273 in most tissues, but probably less N-glycosylated in testis. N-glycosylation on Asn-114 and Asn-273 is required for cytoprotective function. N-glycosylation on Asn-114 is required for Measles virus binding. N-glycosylation on Asn-273 is required for Neisseria binding. N-glycosylation is not required for human adenovirus binding.</p> <p>Extensively O-glycosylated in the Ser/Thr-rich domain. O-glycosylation is required for Neisseria binding but not for Measles virus or human adenovirus binding.</p> <p>In epithelial cells, isoforms B/D/F/H/J/L/3 are phosphorylated by YES1 in response to infection by Neisseria gonorrhoeae; which promotes infectivity. In T-cells, these isoforms may be phosphorylated by Lck.</p>
細胞内局在	Cytoplasmic vesicle > secretory vesicle > acrosome inner membrane. Inner acrosomal

membrane of spermatozoa. Internalized upon binding of Measles virus, Herpesvirus 6 or Neisseria gonorrhoeae, which results in an increased susceptibility of infected cells to complement-mediated injury. In cancer cells or cells infected by Neisseria, shedding leads to a soluble peptide.

画像



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Immunocytochemistry/ Immunofluorescence - Anti-CD46 antibody [MEM-258] (Allophycocyanin) (ab60904)

ICC/IF image of ab60904 stained DU145 cells. The cells were 100% methanol fixed (5 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 ab60904 at 1/10 dilution overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- mouse (ab96879) IgG (H+L) used at a 1/1000 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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