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Anti-CEACAM1 (human) Monoclonal Antibody (GM8G5)

Catalog Number: M00923-1

About CEACAM1

Reacts with human CD59, a 20kDa glycosyl phosphatidyl-inositol (GPI)-anchored cell surface protein. CD59 regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. CD59 is widely distributed on cells in all tissues. It inhibits formation of MAC, thus protecting cells from complement-mediated lysis. The expression of CD59 on erythrocytes is important for their survival. Genetic defects in GPI-anchor attachment, that cause a reduction or loss of CD59 and CD55 on erythrocytes produce the symptoms of the disease paroxysmal hemoglobinuria (PNH). It is useful for study on GPI-anchored proteins, PNH and CD59 functions.

Overview

Product Name	Anti-CEACAM1 (human) Monoclonal Antibody (GM8G5)
Reactive Species	Human
Description	Boster Bio Anti-CEACAM1 (human) Monoclonal Antibody (GM8G5) catalog # M00923-1. Tested in Flow Cytometry, IHC applications. This antibody reacts with Human.
Conjugate	Biotin
Application	Flow Cytometry, IHC
Clonality	Monoclonal GM8G5
Formulation	Liquid. In PBS, pH 7.2. Contains no preservatives.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P13688

Technical Details

Immunogen	Vector containing the cDNA of human CEACAM1 A2 domain.
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgM, kappa
Form	Liquid. In PBS, pH 7.2. Contains no preservatives.

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Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein G-affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Optimal conditions must be determined individually for each application.

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Anti-CEACAM1 (human) Monoclonal Antibody (GM8G5) (M00923-1) Images

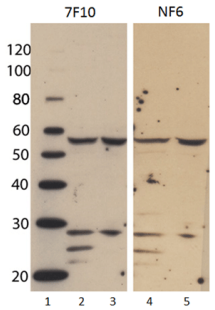

Figure 1. Western blot analysis of CEACAM1 using anti-CEACAM1 antibody (M00923-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CEACAM1 antigen affinity purified polyclonal antibody (Catalog # M00923-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1021) with Tanon 5200 system. A specific band was detected for CEACAM1.

1 Publications Citing This Product

1. PubMed ID: 26078764, Effects of Naringin on Proliferation and Osteogenic Differentiation of Human Periodontal Ligament Stem Cells In Vitro and In Vivo

Visit bosterbio.com/anti-ceacam1-human-monoclonal-antibody-gm8g5-m00923-1-boster.html to see all 1 publications.

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