

Anti-Mouse CD66a (CEACAM1) Purified


Catalog Number: 14-0661

Also Known As: CEACAM, BGP, biliary glycoprotein

RUO: For Research Use Only

Product Information

Contents: Anti-Mouse CD66a (CEACAM1) Purified


 Catalog Number: 14-0661

Clone: CC1


Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The monoclonal antibody CC1 recognizes CD66a, also known as carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM1), biliary glycoprotein, and BPG. Expression of CD66a is found on brush borders, epithelial, and endothelial cells. In hematopoietic cells expression is found abundantly on B cells, as well as some NKs, monocytes, DCs, and granulocytes. Although low levels of mRNA have been identified in T cells in humans, resting mouse T lymphocytes are not reported to express CD66a, as confirmed by lack of staining with CC1 antibody. In humans, expression levels of CD66a have been used to identify malignancies. CD66a plays a key role as a regulator of BCR activation of B lymphocytes.

An alternate allele, CEACAM1b, is expressed in SJL mice; therefore, CC1 does not stain SJL tissue. The monoclonal CC1 has been shown to block viral infection and also enhance B cell proliferation when combined with IgM crosslinking.

Applications Reported

This CC1 antibody has been reported for use in flow cytometric analysis, and immunohistology staining of paraffin embedded tissue sections. (Please use Functional Grade purified CC1, cat. 16-0661, in functional assays.)

Applications Tested

This CC1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Turner BC, Hemmila EM, Beauchemin N, Holmes KV. Receptor-dependent coronavirus infection of dendritic cells. *J Virol*. 2004 May;78(10):5486-90. (CC1, FA, FC, PubMed)

Greicius G, Severinson E, Beauchemin N, Obrink B, Singer BB. CEACAM1 is a potent regulator of B cell receptor complex-induced activation. *J Leukoc Biol*. 2003 Jul;74(1):126-34. (CC1, FC, PubMed)

Kammerer R, Stober D, Singer BB, Obrink B, Reimann J. Carcinoembryonic antigen-related cell adhesion molecule 1 on murine dendritic cells is a potent regulator of T cell stimulation. *J Immunol*. 2001 Jun 1;166(11):6537-44

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11-4317 Streptavidin FITC

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14-4714 Mouse IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

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