

CD66a (CEACAM1) Monoclonal Antibody (CC1), PE, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CC1
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1311201

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.06 µg/test	2 Publications

Product Specific Information

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.

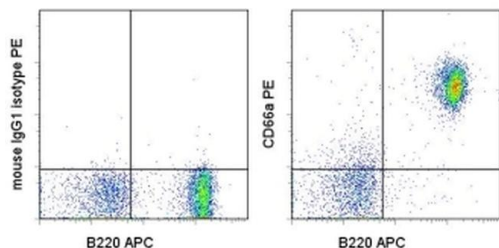
Applications Reported: This CC1 antibody has been reported for use in flow cytometric analysis.

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 0.06 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD66a (CEACAM1) Monoclonal Antibody (CC1), PE, eBioscience™



CD66a (CEACAM1) Antibody (12-0661-80) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.03 µg of Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (left) or 0.03 µg of Anti-Mouse CD66a (CEACAM1) PE (Product # 12-0661-80) (right). Total viable cells were used for analysis.

2 References

Flow Cytometry (2)

Nature immunology

Single-cell transcriptome analysis reveals coordinated ectopic gene-expression patterns in medullary thymic epithelial cells.

"12-0661 was used in Flow cytometry/Cell sorting to characterize TRA expression in mTECs as a coordinated process that might involve local remodeling of chromatin and thus ensures a comprehensive representation of the immunological self."

Authors: Brennecke P, Reyes A, Pinto S, Rattay K, Nguyen M, Küchler R, Huber W, Kyewski B, Steinmetz LM

Species
Mouse

Dilution
Not Cited

Year
2015

Virology

T cell mediated suppression of neurotropic coronavirus replication in neural precursor cells.

"12-0661 was used in Flow cytometry to demonstrate that neural precursor cells support replication following infection by the neurotropic JHM strain of mouse hepatitis virus."

Authors: Plaisted WC, Weinger JG, Walsh CM, Lane TE

Species
Mouse

Dilution
Not Cited

Year
2014

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