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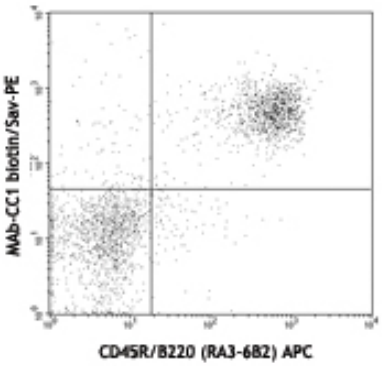
Product Data Sheet

Biotin anti-mouse CD66a (CEACAM1a)

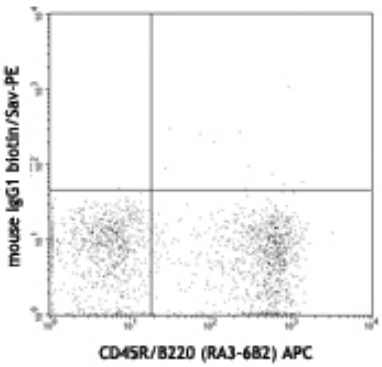
Catalog # / Size: 134507 / 25 µg
Clone: MAb-CC1
Isotype: Mouse IgG1
Immunogen: Balb/c mouse purified intestinal brush border membrane
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 splenocytes stained with MAb-CC1 biotin, followed by Sav-PE and CD45R/B220 (RA3-6B2) APC

Applications:

Applications: FC - *Quality tested*
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application References:
1. Turner BC, *et al.* 2004. *J. Virol.* 78 (10):5486
2. Williams RK, *et al.* 1990. *J. Virol.* 64:3817
3. Dveksler GS, *et al.* 1993. *Proc. Natl. Acad. Sci. USA.* 90:1716



C57BL/6 splenocytes stained with mouse IgG1 (clone MOPC-21) biotin isotype control followed by Sav-PE and CD45R/B220 (clone RA3-6B2) APC

Description: CD66a, known as CEACAM1a, carcinoembryonic antigen-related cell adhesion molecule 1a, is a glycoprotein of the immunoglobulin superfamily and the carcinoembryonic antigen family. Isoforms expressing either two or four alternatively spliced Ig-like domains in mice have been found in a number of epithelial, endothelial, or hematopoitic tissues. CEACAM1a functions as an intercellular adhesion molecule, an angiogenic factor, and a tumor cell growth inhibitor. It also serves as a signal regulatory protein influencing B cell receptor complex-mediated activation. Moreover, the mouse CEACAM1a protein is targets of viral or bacterial pathogens. It was reported that targeted disruption of the CEACAM1a gene resulting in a partial ablation of the protein in mice led to reduced susceptibility to virus infection. The antibody recognizes the N-terminal domain of murine CEACAM1a, does not recognize murine CEACAM1b, an allele in SJL mice.
Antigen References:
1. Nakagaki K, *et al.* 2005. *J. Virol.* 79(10):6102
2. Greicius G *et al.* 2003. *J. Leukoc. Biol.* 74(1):126
3. Hemmila E *et al.* 2004. *J. Virol.* 78(18):10156

Related Products:

Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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