

# Product Data Sheet

## Purified anti-mouse CD66a (CEACAM1a)

**Catalog # / Size:** 134502 / 100 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.  
**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.

## Applications:

**Applications:** FC - *Quality tested*  
 WB, IP, IHC, ELISA - *Reported in the literature*

**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 ≤0.25 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

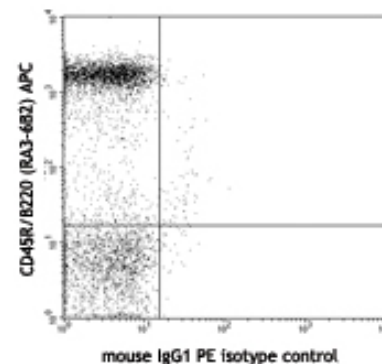
**Description:** CD66a, known as CEACAM1a, carcinoembryonic antigen-related cell adhesion molecule 1a, is a glycoprotein of the immunoglobulin superfamily and the carcinoembryonic antigen family. Isoforms expressing either two or four alternatively spliced Ig-like domains in mice have been found in a number of epithelial, endothelial, or hematopoietic 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

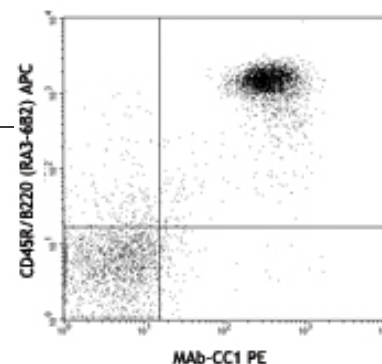
**Related Products:** **Product**  
 Purified Mouse IgG1, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 MOPC-21

**Application**  
 FC, ICFC, ICC, IF, IHC, IP, WB  
 FC, ICC, ICFC  
 FC, ICFC



Balb/c mouse splenocytes stained with MAb-CC1 PE (lower panel) or mouse IgG1 PE isotype control (upper panel) and CD45R/B220 (RA3-6B2) APC



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