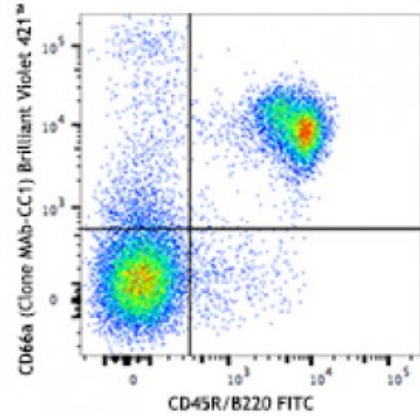


**Brilliant Violet 421™ anti-mouse CD66a (CEACAM1a)**

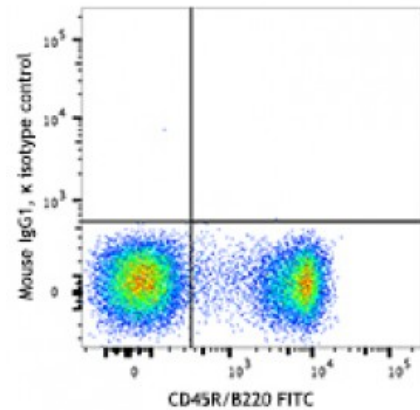
**Catalog # / Size:** 1272655 / 50 µg  
**Clone:** MAb-CC1  
**Isotype:** Mouse IgG1, κ  
**Immunogen:** Purified granules from the human lymphoma cell line  
**Reactivity:** Mouse  
**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).  
**Concentration:** Lot-specific



C57BL/6 mouse splenocytes were stained with CD45R/B220 FITC and CD66a (clone Mab-CC1)™ (top) or mouse IgG1, κ Brilliant Violet 421™ isotype control (bottom).

**Applications:**

**Applications:** Flow Cytometry  
**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.



Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

**Application References:**

1. Hameed A, *et al.* 1992. *Am. J. Pathol.* 140:1025. (IHC)
2. Schaerli P, *et al.* 2004. *J. Exp. Med.* 199:1265.
3. Watanabe N, *et al.* 1997. *Blood* 90:3662.
4. Mauad T, *et al.* 2004. *Pediatr. Pulmonol.* 38:233. (IHC)
5. Barrat FJ, *et al.* 1999. *P. Natl. Acad. Sci. USA* 96:8645. (IF)
6. Chen H, *et al.* 2005. *J. Immunol.* 175:591.
7. Bryceson YT, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074468. (IF)
8. Wood SM, *et al.* 2009. *Blood* 114:4117. [PubMed](#)
9. Makedonas G, *et al.* 2010. *PLoS Pathog.* 6:e1000798.

**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. The mouse and human CEACAM1a proteins are targets of viral or bacterial pathogens, respectively. 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, it does not recognize murine CEACAM1b, an allele in SJL mice.

**Antigen  
References:**

1. Lieberman J. 2003. *Nat. Rev. Immunol.* 3:361.
2. Trapani J, *et al.* 2002. *Nat. Rev. Immunol.* 2:735.