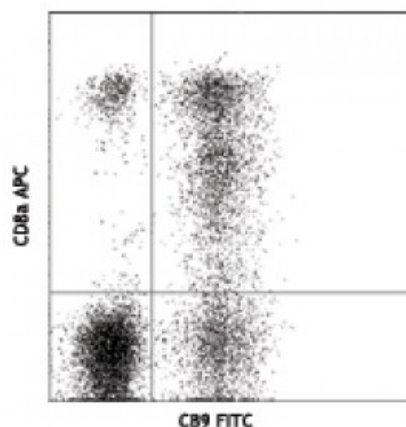


FITC anti-human Granzyme A

Catalog # / Size: 3136020 / 100 tests
Clone: CB9
Isotype: Mouse IgG1, κ
Immunogen: Purified human Granzyme A
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration: Lot-specific



Human peripheral blood lymphocytes surface stained with CD8a APC and then intracellularly stained with CB9 FITC

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining³ of formalin-fixed paraffin-embedded tissue sections, and immunoprecipitation².

Application References:

1. Trimble L, *et al.* 1998. *Blood* 91:585.
2. Beresford P, *et al.* 1997. *P. Natl. Acad. Sci. USA* 94:9285.
3. Raqib R, *et al.* 2002. *Infect. Immun.* 70:3199.
4. Chen H, *et al.* 2005. *J. Immunol.* 175:591.
5. Xu X, *et al.* 2012. *PLoS One.* 7:e41869. [PubMed](#).

Description: Granzyme A is a 28 kD disulfide-linked homodimeric protein and the most abundant of the proteases occurring in CTL granules. It is homologous to other serine esterases, including other granzymes, mast cell proteases, and neutrophil cathepsins. Granzyme B is thought to be a rapidly-acting apoptotic enzyme, while Granzyme A is slow acting. The CB9 monoclonal antibody recognizes human Granzyme A and has been shown to be useful for flow cytometry, immunoprecipitation, and immunohistochemistry (paraffin-embedded sections).

Antigen References:

1. Brune J, *et al.* 1986. *Nature* 322:268.
2. Fan Z, *et al.* 2003. *Nature Immunol.* 4:145.
3. Fan Z, *et al.* 2003. *Cell* 112:659.
4. Masson D, *et al.* 1987. *Cell* 49:679.