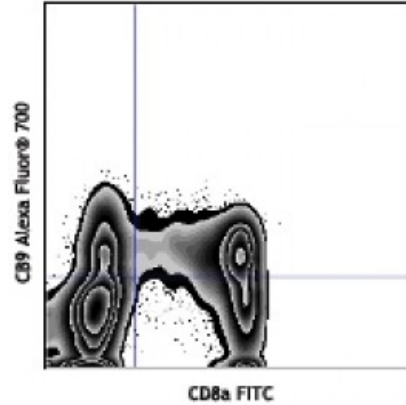


Alexa Fluor® 700 anti-human Granzyme A

Catalog # / Size: 3136050 / 100 µg
Clone: CB9
Isotype: Mouse IgG1, κ
Immunogen: Purified human Granzyme A
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



Human peripheral blood lymphocytes surface stained with CD8 FITC, then intracellularly stained with CB9 Alexa Fluor® 700

Applications:

Applications: Flow Cytometry
Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤ 0.5 microg per 10⁶ cells in 100 microL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633nm / 635nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

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. Hersperger AR, *et al.* 2011. *Blood.* 117:3799. [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 1. Brune J, *et al.* 1986. *Nature* 322:268.

- References:**
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.