SONY

Product Data Sheet

Alexa Fluor® 700 anti-human Granzyme A

Catalog # / Size: 3136050 / 100 µg

Clone: CB9

Isotype: Mouse IgG1, κ

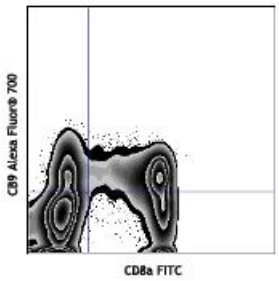
Immunogen: Purified human Granzyme A

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



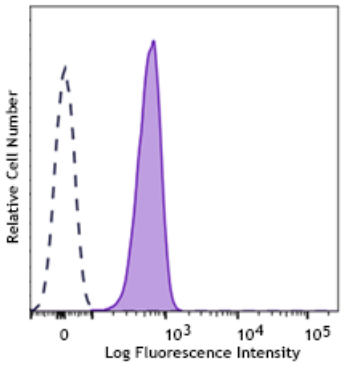
Human peripheral blood lymphocytes surface stained with CD8 FITC, then intracellularly stained with CB9 Alexa Fluor® 700

Applications:

Applications: Intracellular Staining for 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 µg per 10^6 cells in 100 µl 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.



HeLa cells were fixed with Fixation Buffer (Cat. No. 420801), permeabilized using True-Phos™ Perm Buffer (Cat. No. 425401), and intracellularly stained with anti-NF- κB p65 (clone A21012A) (filled histogram) or purified Mouse IgG1, κ isotype control (Cat. No. 400102) (open histogram) followed by PE goat anti-mouse IgG (Cat. No. 405307).

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

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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.

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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 granyzmes, 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.

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