## PerCP/Cy5.5 anti-human Granzyme A

Catalog # / Size: 3136075 / 25 tests

3136080 / 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 PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated

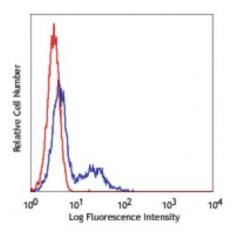
antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes intracellular stained with CB9 PerCP/Cy5.5

## **Applications:**

**Applications:** Flow Cytometry

Recommended

**Usage:** 

Each lot of this antibody is quality control tested by intracellular

immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of

690 nm.

**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. Simmons R, et al. 2013. / Virol. 87:3087. PubMed

6. van Mejigaarden KE, et al. 2015. PLoS Pathog. 11:1004671. 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 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.

