

## **Product Data Sheet**

## Purified anti-human Granzyme A

Catalog # / Size: 507202 / 100 µg

Clone: CB9

**Isotype:** Mouse IgG1,  $\kappa$ 

Immunogen: Purified human Granzyme A

Reactivity: Human

**Preparation:** The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

## **Applications:**

**Applications:** ICFC - Quality tested IP, IHC - Reported in the literature

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For

immunofluorescent staining, the suggested use of this reagent is  $\leq 0.5 \mu g$  per million cells in 100 µl volume or 100 µl 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 staining<sup>3</sup> of formalin-fixed

paraffin-embedded tissue sections, and immunoprecipitation<sup>2</sup>.

**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.

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,

Poly4053

Polv4053

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.

**Related Products: Product** 

Purified anti-human Perforin dG9 MOPC-21 Purified Mouse IgG1, κ Isotype Ctrl APC Goat anti-mouse IgG (minimal x-reactivity) Poly4053 Poly4053

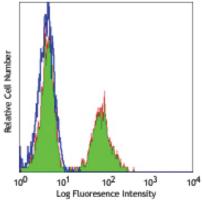
Biotin Goat anti-mouse IgG (minimal x-reactivity) FITC Goat anti-mouse IgG (minimal x-reactivity) HRP Goat anti-mouse IgG (minimal x-reactivity)
PE Goat anti-mouse IgG (minimal x-reactivity)

Cell Staining Buffer RBC Lysis Buffer (10X) Clone Application ICFC, IP, IF, IHC FC, IĆFĆ, IĆC, IF, IHC, IP, WB

FC, ELISA, IHC, IF, WB Poly4053

ELISA, IHC, WB

FC, ICC, ICFC FC, ICFC



Human peripheral blood lymphocytes intracellular stained with purified CB9, followed by anti-mouse IgG FITC



