

Purified anti-mouse Granzyme A Antibody

Catalog# / Size	149702 / 100 µg
Clone	3G8.5
Regulatory Status	RUO
Other Names	Hf, SE1, TSP1, Ctlα3, TSP-1, Ctlα-3, AW494114
Isotype	Mouse IgG2b, κ
Description	Granzyme A is a serine protease that is similar to Granzyme B. However, unlike granzyme B, granzyme A is a homodimer. It is expressed in cytotoxic T cells and natural killer cells (NK), but is not essential for induction of apoptosis or DNA fragmentation. Cell death induced by granzyme A is slower and morphologically different than the cell death induced by granzyme B. It plays a crucial role in infection-mediated inflammation as well as immunological responses against viruses, bacteria, and tumor cells.

Product Details

Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Full length recombinant granzyme A of mouse origin.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	ICFC - Quality tested
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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application References (PubMed link indicates BioLegend citation)	1. Fehniger TA, <i>et al.</i> 2007. <i>Immunity</i> 26:798. (ICFC)
Product Citations	1. Anthony SM, <i>et al.</i> 2021. eLife. 10:00. PubMed
RRID	AB_2565308 (BioLegend Cat. No. 149702)

Antigen Details

Structure	29 kD, Homodimer, Serine protease
Distribution	Cytotoxic T cells and natural killer cells (NK); low on granulocytes, B cells, and activated dendritic cells (DCs).
Function	Induction of cell death and apoptosis.
Cell Type	T cells, NK cells

Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience
Molecular Family	Proteases, Enzymes and Regulators
Antigen References	<ol style="list-style-type: none"> 1. Susanto O, <i>et al.</i> 2013. <i>Cell Death Differ.</i> 20:1183. 2. Ebnet K, <i>et al.</i> 1995. <i>EMBO J.</i> 14:4230. 3. Jenne DE, <i>et al.</i> 1988. <i>Immunol. Rev.</i> 103:53.
Gene ID	14938

Related Protocols

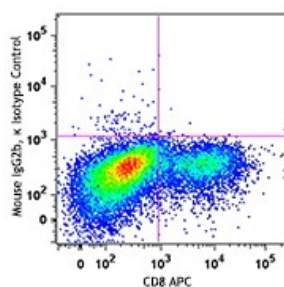
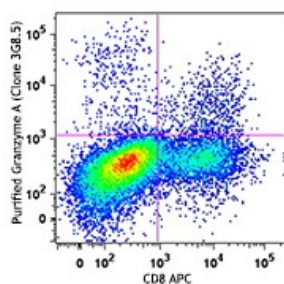
[Intracellular Cytokine Staining Protocol - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse Granzyme A, PE anti-mouse Granzyme A

Product Data



CD3/CD28 (three days) stimulated BALB/c splenocytes were intracellularly stained with CD8 APC and purified granzyme A (clone 3G8.5, top) or mouse IgG2b, κ isotype control (bottom), and then was followed by anti-mouse IgG2b PE.

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