



Granzyme B Monoclonal Antibody (NGZB), FITC, eBioscience™

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	NGZB
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10733414

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.125 μg/test	29 Publications

Product Specific Information

Description: This NGZB monoclonal antibody reacts with mouse Granzyme B, which is a member of the granzyme serine protease family. Granzyme B is found in the granules of cytotoxic T cells and NK cells. Granzyme B has also been described as CGL1 (cathepsin G-like-1), a serine protease expressed only in cytotoxic T-lymphocytes after cell activation, and CTLA-1 (cytotoxic T lymphocyte-associated serine esterase 1) based on identification of mRNA in various cytotoxic T cells, but not observed in non-cytotoxic lymphoid cells. Granzyme B is crucial for the rapid induction of target cell death by apoptosis, induced by interaction with cytotoxic T cells. The receptor involved has been identified as mannose 6-phosphate receptor. This receptor functions as a death receptor for Granzyme B during cytotoxic T cell-induced apoptosis. This NGZB monoclonal antibody does not crossreact to human Granzyme B nor is staining blocked with GB11, suggesting it recognizes a different epitope.

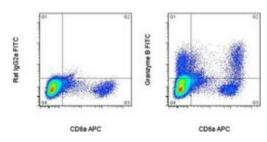
Applications Reported: This NGZB antibody has been reported for use in intracellular staining and flow cytometric analysis.

Applications Tested: This NGZB antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Granzyme B Monoclonal Antibody (NGZB), FITC, eBioscience™



Granzyme B Antibody (11-8898-82) in Flow

C57Bl/6 splenocytes were cultured with plate bound Anti-Mouse CD3e Functional Grade Purified (Product # 16-0031-82) and Anti-Mouse CD28 Functional Grade Purified (Product # 16-0281-82) for 3 days, then cultured with Protein Transport Inhibitor Cocktail (Product # 00-4980-03) for an additional 5 hours. Cells were surface stained with Anti-Mouse CD8a APC (Product # 17-0081-82) followed by intracellular staining with 0.06 μg of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) (left) or 0.06 μg of Anti-Mouse Granzyme B FITC (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 31 References

Immunohistochemistry (2)

EBioMedicine

Evaluation of antiviral - passive - active immunization ("sandwich") therapeutic strategy for functional cure of chronic hepatitis B in mice.

"11-8898 was used in Immunohistochemistry-immunofluorescence to show "sandwich" combination therapy consisting of antiviral, passive and active immunization may be effective for chronic hepatitis B as it efficiently decreases HBsAg and HBV DNA levels and induces cellular and humoral immunity."

Authors: Shi B,Wu Y,Wang C,Li X,Yu F,Wang B,Yang Z,Li J,Liang M,Wen Y,Ying T,Yuan Z

Species Mouse

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Dilution Not Cited

Year 2019

Journal of virology

Caribbean and La Réunion Chikungunya Virus Isolates Differ in Their Capacity To Induce Proinflammatory Th1 and NK Cell Responses and Acute Joint Pathology.

"Published figure using Granzyme B monoclonal antibody (Product # 11-8898-82) in Immunohistochemistry"

Authors: Teo TH,Her Z,Tan JJ,Lum FM,Lee WW,Chan YH,Ong RY,Kam YW,Leparc-Goffart I,Gallian P,Rénia L,de Lamballerie X,Ng LF

SpeciesNot Applicable

Dilution Not Cited

Year 2015

Flow Cytometry (29)

International journal of nanomedicine

Extracellular Vesicles from *Akkermansia muciniphila* Elicit Antitumor Immunity Against Prostate Cancer via Modulation of CD8⁺ T Cells and Macrophages.

"Published figure using Granzyme B monoclonal antibody (Product # 11-8898-82) in Flow Cytometry" Authors: Luo ZW,Xia K,Liu YW,Liu JH,Rao SS,Hu XK,Chen CY,Xu R,Wang ZX,Xie H

Species

Not Applicable

Dilution Not Cited

Year 2021

Cell reports

Blockade of 6-phosphogluconate dehydrogenase generates CD8⁺ effector T cells with enhanced anti-tumor function.

"Published figure using Granzyme B monoclonal antibody (Product # 11-8898-82) in Flow Cytometry"

Authors: Daneshmandi S,Cassel T,Lin P,Higashi RM,Wulf GM,Boussiotis VA,Fan TW,Seth P

SpeciesNot Applicable

Dilution Not Cited

Year 2021

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More applications with references on thermofisher.com

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