

Store at
4°C

#33359

Granzyme B (D2H2F) Rabbit mAb (Alexa Fluor® 488 Conjugate)



Support: +1-978-867-2388 (U.S.)
www.cellsignal.com/support

Orders: 877-616-2355 (U.S.)
orders@cellsignal.com

Entrez-Gene ID #3002
UniProt ID #P10144

New 2/18

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications
F
Endogenous

Species Cross-Reactivity*
H, M

Isotype
Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Granzyme B (D2H2F) Rabbit mAb #17215.

Background: Granzymes are a family of serine proteases expressed by cytotoxic T lymphocytes and natural killer (NK) cells and are key components of immune responses to pathogens and transformed cells (1). Granzymes are synthesized as zymogens and are processed into mature enzymes by cleavage of a leader sequence. They are released by exocytosis in lysosome-like granules containing perforin, a membrane pore-forming protein.

Granzyme B has the strongest apoptotic activity of all the granzymes as a result of its caspase-like ability to cleave substrates at aspartic acid residues thereby activating procaspases directly and cleaving downstream caspase substrates (2,3).

Specificity/Sensitivity: Granzyme B (D2H2F) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total Granzyme B protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human Granzyme B protein.

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. *Do not aliquot the antibody. Protect from light. Do not freeze.*

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

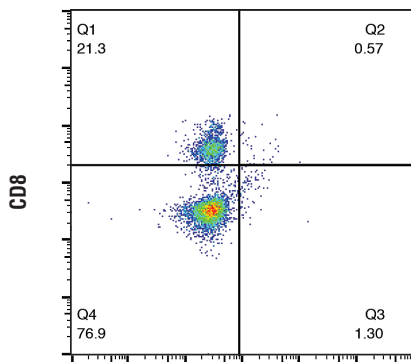
Recommended Antibody Dilutions:

Flow Cytometry 1:50

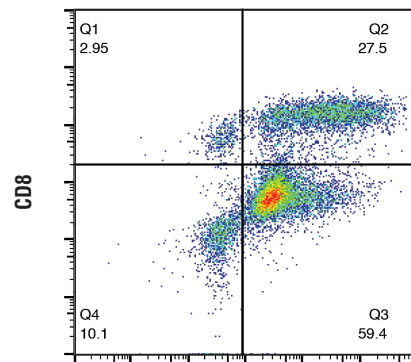
For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Background References:

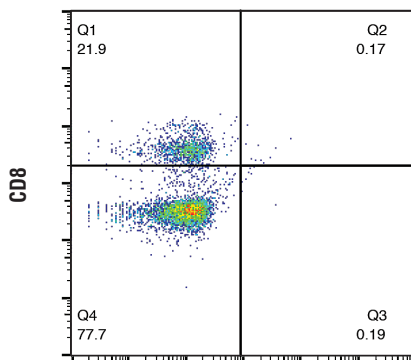
- (1) Trapani, J.A. (2001) *Genome Biol.* 2, REVIEWS 3014.
- (2) Lord, S.J. et al. (2003) *Immunol. Rev.* 193, 31-8.
- (3) Trapani, J.A. and Sutton, V.R. (2003) *Curr. Opin. Immunol.* 15, 533-43.



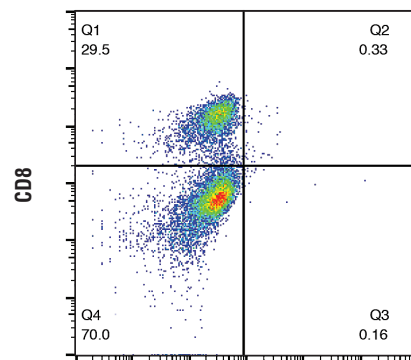
Granzyme B (Alexa Fluor® 488 Conjugate)



Granzyme B (Alexa Fluor® 488 Conjugate)



Rabbit IgG Isotype Control
(Alexa Fluor® 488 Conjugate)



Rabbit IgG Isotype Control
(Alexa Fluor® 488 Conjugate)

◀ Flow cytometric analysis of human peripheral blood mononuclear cells, untreated (left column) or treated with anti-CD3 plus anti-CD28 (10 µg/ml, 72 hr; right column), using Granzyme B (D2H2F) Rabbit mAb (Alexa Fluor® 488 Conjugate) (top row) or concentration-matched Rabbit (DA1E) mAb IgG XP® Isotype Control (Alexa Fluor® 488 Conjugate) #2975 (bottom row), and co-stained with a CD8 Antibody.

U.S. Patent No. 5,675,063

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, including use with HCS or other automated imaging applications but excluding use in combination with DNA microarrays. The buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

Thank you for your recent purchase. If you would like to provide a review visit cellsignal.com/comments.

www.cellsignal.com

© 2018 Cell Signaling Technology, Inc.

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected *Species enclosed in parentheses are predicted to react based on 100% homology.*