

PerCP/Cyanine5.5 anti-human Perforin Antibody

Catalog# / Size	353313 / 25 tests 353314 / 100 tests
Clone	B-D48
Regulatory Status	RUO
Other Names	PRF1, P1, PFP, HPLH2
Isotype	Mouse IgG1
Description	Perforin is a 70 kD cytolytic protein that is expressed in the cytoplasmic granules of cytotoxic T lymphocytes (CTLs) and natural killer (NK) cells. Perforin is one of the major effector molecules used by cytotoxic T cells and NK cells to mediate targeted cell lysis.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Additional Product Notes	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Product Citations	<ol style="list-style-type: none">1. Lamichhane R, <i>et al.</i> 2020. Eur J Immunol. 50:178. PubMed2. van Montfoort N, <i>et al.</i> 2018. Cell. 175:1744. PubMed3. Ruth JH, <i>et al.</i> 2021. JCI Insight. 6:e145662. PubMed4. Lamichhane R <i>et al.</i> 2019. Cell Rep. 28(12):3061-3076 . PubMed
RRID	AB_2571970 (BioLegend Cat. No. 353313) AB_2571971 (BioLegend Cat. No. 353314)

Antigen Details

Structure	70 kD
Distribution	CTL, NK (cytoplasmic granules)

Function	Mediates targeted cell lysis.
Cell Type	NK cells, T cells, Tregs
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	1. Lieberman J. 2003. <i>Nat. Rev. Immunol.</i> 3:361. 2. Trapani J, et al. 2002. <i>Nat. Rev. Immunol.</i> 2:735.
Gene ID	5551

Related Protocols

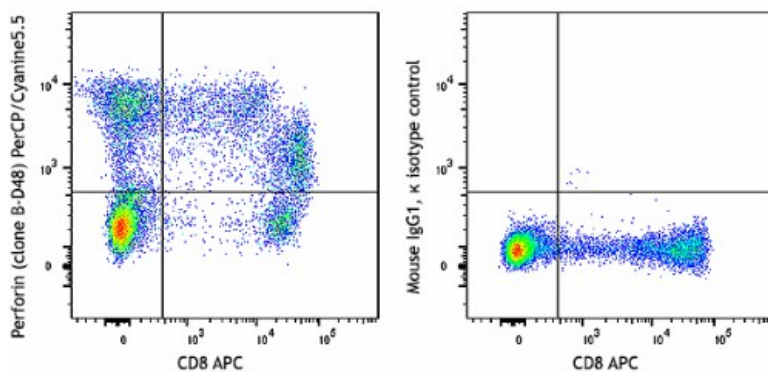
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Brilliant Violet 421™ anti-human Perforin, PE anti-human Perforin, Pacific Blue™ anti-human Perforin, APC anti-human Perforin, PerCP/Cyanine5.5 anti-human Perforin, PE/Cyanine7 anti-human Perforin, FITC anti-human Perforin, Alexa Fluor® 700 anti-human Perforin, APC/Fire™ 750 anti-human Perforin, Alexa Fluor® 488 anti-human Perforin, Alexa Fluor® 647 anti-human Perforin

Product Data



Human peripheral blood lymphocytes were surface stained with CD8 APC, then fixed, permeabilized, and intracellularly stained with Perforin (clone B-D48) PerCP/Cyanine5.5 (left), or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (right).

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