

PE/Cyanine7 anti-human Perforin Antibody

Catalog# / Size	353315 / 25 tests 353316 / 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 PE/Cyanine7 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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Product Citations	<ol style="list-style-type: none">1. Koutsakos M, <i>et al.</i> 2021. Cell Reports Medicine. 2(3):100208. PubMed2. Nguyen THO, <i>et al.</i> 2021. Immunity. 54:1066. PubMed3. Oh DY, <i>et al.</i> 2020. Cell. 181:1612. PubMed4. Buggert M, <i>et al.</i> 2020. Cell. 183(7):1946-1961.e15. PubMed
RRID	AB_2571972 (BioLegend Cat. No. 353315) AB_2571973 (BioLegend Cat. No. 353316)

Antigen Details

Structure	70 kD
Distribution	CTL, NK (cytoplasmic granules)
Function	Mediates targeted cell lysis.

Cell Type	T cells, NK 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, <i>et al.</i> 2002. <i>Nat. Rev. Immunol.</i> 2:735.
Gene ID	5551

Related Protocols

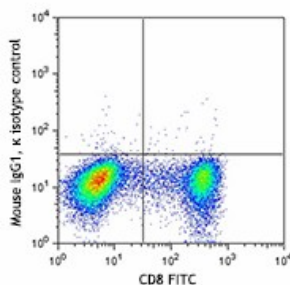
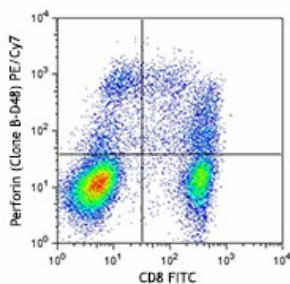
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[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 FITC, fixed with Fixation Buffer, permeabilized with Intracellular Staining Permeabilization Wash Buffer (10X), and then intracellularly stained with Perforin (clone B-D48) PE/Cyanine7 (top), or mouse IgG1, κ PE/Cyanine7 isotype control (bottom).

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