

anti-Human, Cow Perforin Antibody | anti-PRF1 antibody

Anti-Perforin PE-Cy7

CATALOG # AAA129204	REACTIVITY Human, Cow	APPLICATIONS Flow Cytometry, Functional Assay
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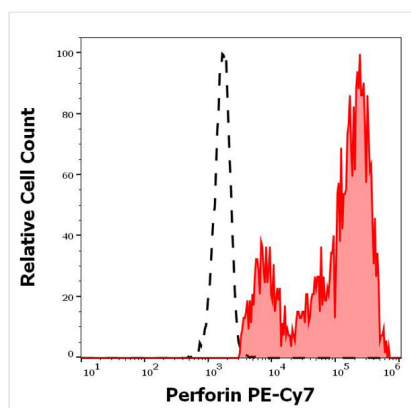
PRODUCT SYNONYMS

Perforin; Anti-Perforin PE-Cy7; perforin 1; PRF1; P1; PFP; HPLH2; anti-PRF1 antibody

PRODUCT SPECIFICATIONS

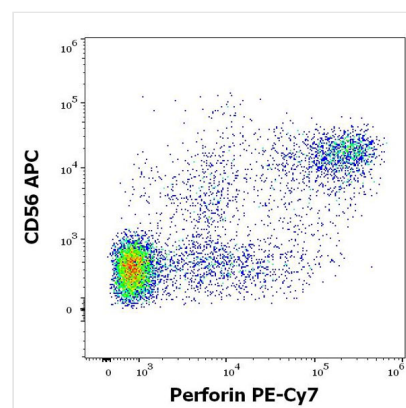
Reactivity	Human, Cow
Isotype	Mouse IgG2b kappa
Clone Number	dG9
Specificity	The mouse monoclonal antibody dG9 (also known as deltaG9) recognizes perforin, a 70 kDa protein expressed in cytoplasmic granules of cytotoxic T cells and NK cells.
Form/Format	PE-Cy7 Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffer
Applicable Applications for anti-PRF1 antibody	FCM/FACS (Flow Cytometry)
Immunogen	purified granules from human YT lymphoma cell line
Negative species	Mouse
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



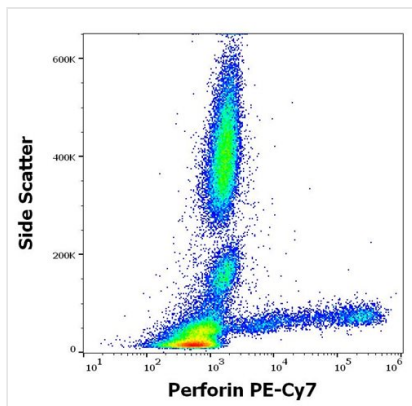
FCM/FACS (Flow Cytometry)

Separation of human perforin positive CD56 positive NK cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-Perforin (dG9) PE-Cy7TM antibody (4 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD56 (LT56) APC antibody (10 ?l reagent / 100 ?l of peripheral whole blood) and intracellular staining of human lymphocytes using anti-Perforin (dG9) PE-Cy7TM antibody (4 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)
Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-Perforin (d9G) PE-Cy7™ antibody (4 µl reagent / 100 µl of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-PRF1 antibody	Perforin is a 70 kDa cytolytic protein with structural and functional similarities to complement component 9 (C9). It is stored in cytoplasmic granules of cytotoxic T cells and NK cells and after its release it forms transmembrane pores in the target cells to kill it. As perforin is a key effector molecule for cell-mediated cytotoxicity, defects of its gene can cause severe disorders.
References	*Vargas-Inchaustegui DA, Demberg T, Robert-Guroff M: A CD8⁺(-) subpopulation of macaque circulatory natural killer cells can mediate both antibody-dependent and antibody-independent cytotoxic activities. <i>Immunology</i>. 2011 Nov;134(3):326-40., URL: http://www.ncbi.nlm.nih.gov/pubmed/21978002,*Takeuchi M, Inoue T, Otani T, Yamasaki F, Nakamura S, Kibata M: Cell-in-cell structures formed between human cancer cell lines and the cytotoxic regulatory T-cell line HOZOT. <i>J Mol Cell Biol</i>. 2010 Jun;2(3):139-51., URL: http://www.ncbi.nlm.nih.gov/pubmed/20348186,*Qiu Y, Chen J, Liao H, Zhang Y, Wang H, Li S, Luo Y, Fang D, Li G, Zhou B, Shen L, Chen CY, Huang D, Cai J, Cao K, Jiang L, Zeng G, Chen ZW: Tim-3-expressing CD4⁺ and CD8⁺ T cells in human tuberculosis (TB) exhibit polarized effector memory phenotypes and stronger anti-TB effector functions. <i>PLoS Pathog</i>. 2012;8(11):e1002984., URL: http://www.ncbi.nlm.nih.gov/pubmed/23144609,*Hersperger AR, Makedonas G, Betts MR: Flow cytometric detection of perforin upregulation in human CD8 T cells. <i>Cytometry A</i>. 2008 Nov;73(11):1050-7., URL: http://www.ncbi.nlm.nih.gov/pubmed/18615597,*Hameed A, Olsen KJ, Cheng L, Fox WM, Hruban RH, Podack ER: Immunohistochemical identification of cytotoxic lymphocytes using human perforin monoclonal antibody. <i>Am J Pathol</i>. 1992 May;140(5):1025-30., URL: https://www.ncbi.nlm.nih.gov/pubmed/1374586,

NCBI AND UNIPROT INFORMATION

NCBI GI #	133908621
NCBI GeneID	5551
NCBI Accession #	NP_001076585.1
NCBI GenBank Nucleotide #	NM_001083116.1
UniProt Accession #	P14222; Q59F57; Q86WX7; B2R6X4
Molecular Weight	61,377 Da
NCBI Official Full Name	perforin-1
NCBI Official Synonym Full Names	perforin 1 (pore forming protein)
NCBI Official Symbol	PRF1
NCBI Official Synonym Symbols	P1; PFP; FLH2; PFN1; HPLH2
NCBI Protein Information	perforin-1; cytolytic; lymphocyte pore forming protein; lymphocyte pore-forming protein
UniProt Protein Name	Perforin-1

UniProt Gene Name	PRF1
UniProt Synonym Gene Names	PFP; P1; PFP
UniProt Entry Name	PERF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/prf1-cow-human-antibody/perforin/129204>