

Mouse anti-Human Perforin Monoclonal Antibody | anti-PRF1 antibody

Mouse Anti Human Perforin

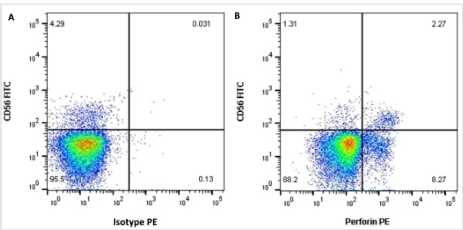
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50390	Mouse	Human	Immunoprecipitation, Immunocytochemistry, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

Perforin; Monoclonal Antibody; Mouse Anti Human Perforin; Perforin antibody; dG9; anti-PRF1 antibody

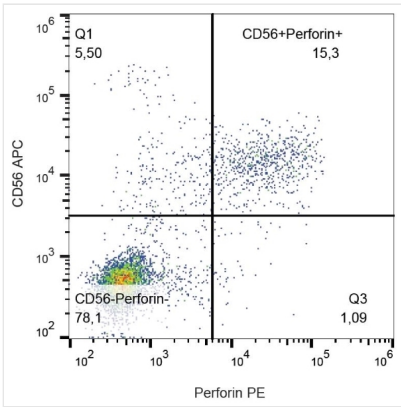
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	dG9
Purity/Purification	>95% by SDS PAGE Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Form/Format	Purified IgG - Liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	555
Applicable Applications for anti-PRF1 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	Purified granules from human YT lymphoma cell line
Preservative Stabilizers	<0.1% Sodium Azide (NaN ₃)
Buffer Solution	TRIS Buffered Saline
Preparation and Storage	Store at 4 degree C. DO NOT FREEZE. This product should be stored undiluted.



Application Data

Figure A. FITC conjugated Mouse anti Human CD56 and RPE conjugated mouse IgG2b isotype control . Figure B. FITC conjugated Mouse Anti Human CD56 and RPE conjugated Mouse anti Human Perforin . All experiments were performed on human peripheral blood lymphocytes blocked with 10% human serum, fixed and permeabilized. Gated on live, single cell lymphocytes. Data acquired on the ZE5 Cell Analyzer.



Application Data

Intracellular taining of perforin in human peripheral blood cells with Mouse anti Human perforin:RPE

ADDITIONAL INFORMATION

Related Product Information for anti-PRF1 antibody

Mouse anti Human perforin, clone dG9 recognizes perforin a 60-70 kDa glycoprotein largely expressed in CD8+ cytotoxin T lymphocytes and Natural Killer cells. It aids in defense against virus-infected or neoplastic cells by inducing apoptosis. Perforin achieves this by inserting a portion of its C-terminus region into the lipid membrane of the target in a calcium dependent manner. Subsequent polymerization with other perforin molecules forms a pore in the membrane. These pores allow the free influx and efflux of ions and proteins though the cell membrane. This disruption to homeostasis results in tonic shock which can ultimately lead to apoptosis and DNA degradation (Osinska et al. 2014). Genetic abnormalities to the perforin gene have been shown to be linked to abnormal immune system functioning, the development of immune diseases as well as lymphomas and leukemias (Osinska et al. 2014). This clone dG9 has been used in flow cytometry experiments to examine intracellular perforin in tumour specific CD8+ T cells incubated with autologous primary breast cancer cells and Tregs (Su et al. 2017).

NCBI AND UNIPROT INFORMATION

NCBI GI #	133908621
NCBI GeneID	5551
NCBI Accession #	NP_001076585.1
NCBI GenBank Nucleotide #	NP_001076585.1
UniProt Accession #	P14222
NCBI Official Full Name	perforin-1
NCBI Official Synonym Full Names	perforin 1
NCBI Official Symbol	PRF1
NCBI Official Synonym Symbols	P1; PFP; HPLH2
NCBI Protein Information	perforin-1
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/perforin-antibody-clone-dg9-immunoprecipitation-immunocytochemistry-flow-cytometry-immunohistochemistry-elisa/50390>