

Human Perforin Antibody

Monoclonal Mouse IgG_{2A} Clone # 1031751 Catalog Number: MAB103853

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Perforin in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 1031751
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese Hamster Ovary cell line CHO-derived human Perforin Pro22-Trp555 Accession # P14222
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

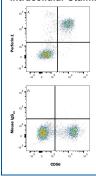
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 μg/mL	Human PBMC fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012)

DATA

Intracellular Staining by Flow Cytometry



Detection of Perforin in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with (A) Mouse Anti-Human Perforin Monoclonal Antibody (Catalog # MAB103853) or (B) isotype control antibody (Catalog # MAB002) followed by Anti-Mouse IgG Allophycocyanin-conjugated Secondary Antibody (Catalog # F0101B) and Mouse anti-Human CD56 Phycoerythrin-conjugated Monoclonal Antibody (Catalog # FAB24086P). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). Staining was performed using our Staining Intracellular Molecules protocol.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.	

BACKGROUND

Perforin is a pore forming, cytolytic protein that is a component of cytolytic T-cell and NK cell granules. Perforin activates clathrin- and dynamin-dependent endocytosis, which removes perforin and granzymes from the plasm membrane to early endosomes, preserving outer membrane integrity. Perforin facilitates granzyme uptake and avoids the proinflammatory necrotic death of a membrane-damaged cell. Defects in the Perforin gene results in Familial hemophagocytic lymphohisticocytosis (FHL). Perforin-based effector systems are involved not only in the lysis of abnormal cells but also in the down-regulation of cellular immune activation.

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