

Human CD79A Antibody

Monoclonal Mouse IgG₁ Clone # 706931 Catalog Number: MAB69201

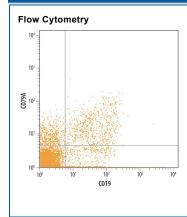
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human CD79A in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse CD79A is observed.	
Source	Monoclonal Mouse IgG ₁ Clone # 706931	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD79A Leu33-Arg143 Accession # P11912	
Formulation	rmulation 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

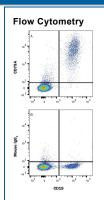
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of CD79A in Human Blood Monocytes by Flow Cytometry. Human peripheral blood monocytes treated with Recombinant Human IL-2 (Catalog # 202-IL) were stained with Mouse Anti-Human CD79A Monoclonal Antibody (Catalog # MAB69201) Phycoerythrinconjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B) and Mouse Anti-Human CD19 APC-conjugated Monoclonal Antibody (Catalog # Catalog # FAB4867A). Quadrant markers were set based on control antibody staining (Catalog #



Detection of CD79A in PBMC with CD19 costain cells by Flow Cytometry. PBMC with CD19 costain were stained with Mouse Anti-Human CD19 APCconjugated Monoclonal Antibody (Catalog # FAB4867A) and either (A) Mouse Anti-Human CD79A Monoclonal Antibody (Catalog # MAB69201) or (B) Mouse IgG₁ Phycoerythrin Isotype Control (Catalog # IC002P) followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). View our protocol for Staining Membraneassociated Proteins.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

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.

BACKGROUNE

CD79A, also known as Igα and MB-1, is a 44 kDa transmembrane glycoprotein in the immunoglobulin superfamily. It contains a single Ig-like domain in its extracellular region (ECD) and one cytoplasmic immunoreceptor tyrosine-based activation motif (ITAM). Alternate splicing generates a short isoform with a 39 aa deletion in the ECD. Heterodimers of CD79A and CD79B/Igβ associate with a membrane bound immunoglobulin on the B cell surface to form the B cell antigen receptor complex (BCR). CD79A and CD79B are required for BCR-mediated signaling and consequently for the development and activation of B lineage cells. Within the ECD, human CD79A shares 57% aa sequence identity with mouse and rat CD79A.

Rev. 12/16/2022 Page 1 of 1

