

30-1815: APC Conjugated Anti-CD79a Monoclonal Antibody (Clone:HM47)

Clonality :	Monoclonal
Clone Name :	HM47
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	CD79A
Gene ID :	973
Uniprot ID :	P11912
Alternative Name :	CD79A,IGA,MB1
Isotype :	Mouse IgG1
Immunogen Information :	Synthetic peptide corresponding to C terminal amino acids 208-222 of human CD79a

Description

CD79a (Ig alpha, MB1) forms disulfide-linked heterodimer with CD79b (Ig beta). They both are transmembrane proteins with extended cytoplasmic domains containing immunoreceptor tyrosine activation motives (ITAMs), and together with cell surface immunoglobulin they constitute B-cell antigen-specific receptor (BCR). CD79a and b are the first components of BCR that are expressed developmentally. They appear on pro-B cells in association with the endoplasmic reticulum chaperone calnexin. Subsequently, in pre-B cells, CD79 heterodimer is associated with lambda5-VpreB surrogate immunoglobulin and later with antigen-specific surface immunoglobulins. At the plasma cell stage, CD79a is present as an intracellular component. CD79a/b complex interacts with Src-family tyrosine kinase Lyn, which phosphorylates its cytoplasmic ITAM motives to form docking sites for downstream signaling.

Product Info

Amount :	100 tests
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

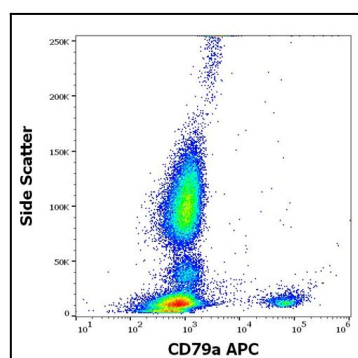


Figure 1: Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human CD79a (HM47) APC antibody (concentration in sample 1 µg/ml).

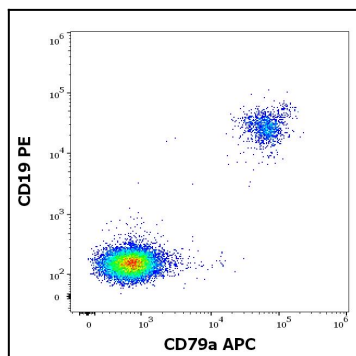


Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD19 (LT19) PE antibody (20 μ l reagent / 100 μ l of peripheral whole blood) and intracellular staining pattern using anti-human CD79a (HM47) APC antibody (concentration in sample 1 μ g/ml).

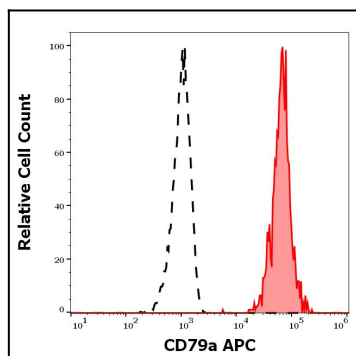


Figure 3: Separation of human CD79a positive CD19 positive B cells (red-filled) from CD79a negative CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human CD79a (HM47) APC antibody (concentration in sample 1 μ g/ml).