

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

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| 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

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

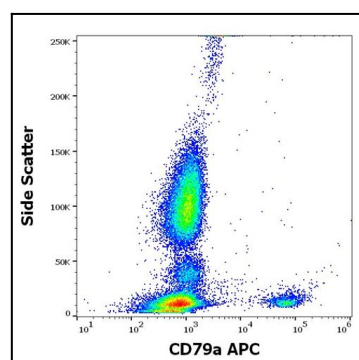


Figure 1: Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human CD79a (HM47) APC antibody (concentration in sample 1 µg/ml).

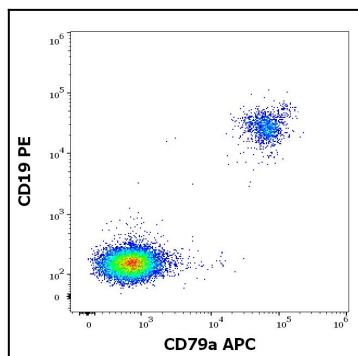


Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD19 (LT19) PE antibody (20 μ l reagent / 100 μ l of peripheral whole blood) and intracellular staining pattern using anti-human CD79a (HM47) APC antibody (concentration in sample 1 μ g/ml).

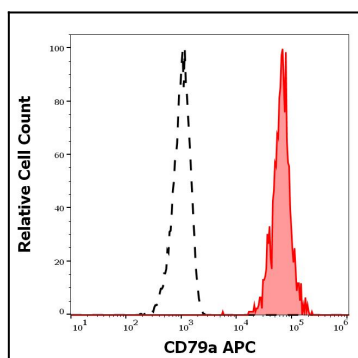


Figure 3: Separation of human CD79a positive CD19 positive B cells (red-filled) from CD79a negative CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human CD79a (HM47) APC antibody (concentration in sample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