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30-2757: Anti-Hu CD79a (Clone ZL7.4) APC

Clone Name: ZL7.4

Application: FACS

Reactivity: Human

Conjugate: APC

Gene : CD79A
Gene ID : 973
Uniprot ID : P11912

Alternative Name: CD79a molecule BCR alpha, Ig-alpha, MB-1, IGA

Immunogen Information: IgM complex isolated from Daudi cells

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.

Specificity: The mouse monoclonal antibody ZL7.4 interacts with extracellular domain of CD79a (Ig alpha), a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms.

Product Info

Amount: 100 Tests

Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions

Purification: and unconjugated antibody and free fluorochrome are removed by size-exclusion

chromatography.

Content: Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Storage condition: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 $\hat{A}\mu$ l reagent / 100 $\hat{A}\mu$ l of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Extracellular and intracellular staining.



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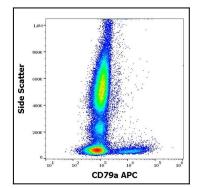


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD79a (ZL7.4) APC antibody

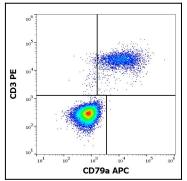


Figure 2: Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD79a (ZL7.4) APC antibody and anti-human CD3 (UCHT1) PE antibody

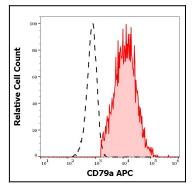


Figure 3: Separation of human CD79a positive B cells (red-filled) from CD79a negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD79a (ZL7.4) APC antibody