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30-2756: Anti-Hu CD79a (cloneZL7.4) Purified

Clonality :	Monoclonal
Clone Name :	ZL7.4
Application :	IHC
Reactivity :	Human
Gene :	CD79A
Gene ID :	973
Uniprot ID :	P11912
Format :	Purified
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 :	0.1 mg
Purification :	Purified by protein-A affinity chromatography.
Content :	Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Extracellular and intracellular staining; recommended dilution: 1-5 Âµg/ml.

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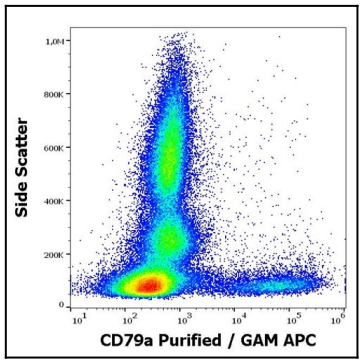


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD79a (ZL7/4) purified antibody (GAM APC).

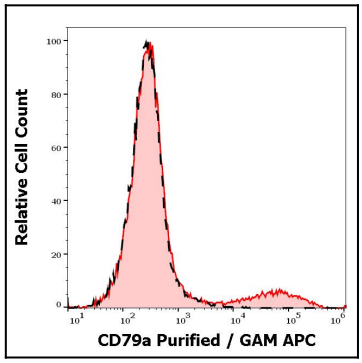


Figure 2: Separation of lymphocytes stained anti-human CD79a (ZL7/4) purified antibody (GAM APC, red-filled) from lymphocytes unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).

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