

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ZL7.4
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD79A
<b>Gene ID :</b>	973
<b>Uniprot ID :</b>	P11912
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CD79a molecule BCR alpha, Ig-alpha, MB-1, IGA
<b>Immunogen Information :</b>	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

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography.
<b>Content :</b>	Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

#### Application Note

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

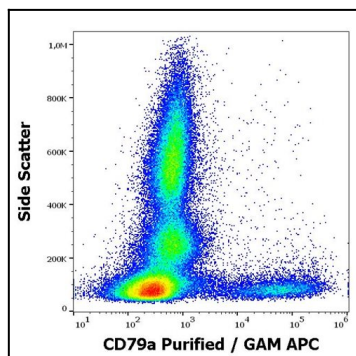


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD79a (ZL7/4) purified antibody (GAM APC).

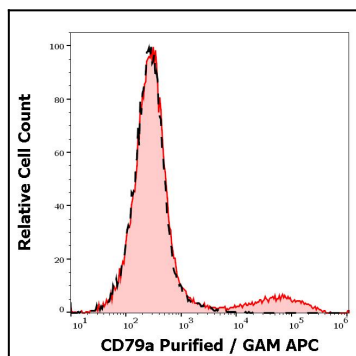


Figure 2: Separation of lymphocytes stained anti-human CD79a (ZL7/4) purified antibody (GAM APC, red-filled) from lymphocytes unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).