

## 30-1528: Anti-CD79a Monoclonal Antibody (Clone:HM47) Purified

Clonality :	Monoclonal	
Clone Name :	HM47	
Application :	FACS	
Reactivity :	Human	
Gene :	CD79A	
Gene ID :	973	
Uniprot ID :	P11912	
Format :	Purified	
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 :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

### **Application Note**

Flow Cytometry Application note: intracellular staining Immunoprecipitation Western Blotting Immunohistochemistry

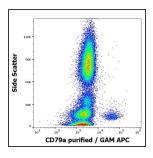


Figure 1: Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human CD79a (HM47) purified antibody (GAM APC).

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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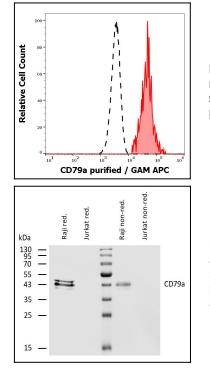


Figure 2: Separation of human CD79a positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human CD79a (HM47) purified antibody (GAM APC).

Figure 3: Western blotting analysis of human CD79a using mouse monoclonal antibody HM47 on lysates of Raji and Jurkat (negative control) cell line under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-CD79a monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. CD79a was detected around 43 kDa.