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## 30-2361: PE Conjugated Anti-CD79a Monoclonal Antibody (Clone:HM47)

Clonality: Monoclonal

Clone Name: HM47
Application: FACS
Reactivity: Human
Conjugate: PE
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**

Amount: 100 tests

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

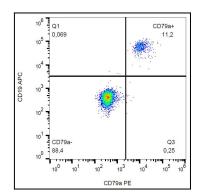


Figure 1: Intracellular staining of CD79a in human peripheral blood with anti-CD79a (HM47) PE.