

## 30-1743: Anti-CD79a Monoclonal Antibody (Clone:HM57)-APC Conjugated

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|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | HM57   |
| <b>Application :</b>           | FACS, IHC, IHC-Fr  |
| <b>Reactivity :</b>            | Human, Pig, Mouse, Rat, Bovine, Equine, Guinea pig, Opossum, Rabbit, Chicken |
| <b>Conjugate :</b>             | APC  |
| <b>Gene :</b>                  | CD79A  |
| <b>Gene ID :</b>               | 973  |
| <b>Uniprot ID :</b>            | P11912   |
| <b>Alternative Name :</b>      | CD79A,IGA,MB1  |
| <b>Isotype :</b>               | Mouse IgG1   |
| <b>Immunogen Information :</b> | Synthetic peptide corresponding to amino acids 202-216 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

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|----------------------------|---|
| <b>Amount :</b>            | 100 tests   |
| <b>Storage condition :</b> | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. |

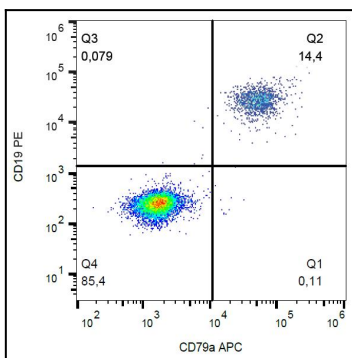


Figure 1: Intracellular staining of CD79a in human peripheral blood with anti-CD79a (HM57) APC.