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Product datasheet for AM26759AC-N

CD79A (208-222) Mouse Monoclonal Antibody [Clone ID: HM47]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HM47
Applications:	FC
Recommended Dilution:	**Flow Cytometry analysis** of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Bovine, Canine, Chicken, Equine, Guinea Pig, Human, Mouse, Porcine, Primate, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to C terminal amino acids 208-222 of human CD79a
Specificity:	This antibody reacts with intracellular domain of CD79a (Ig alpha), a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms.
Formulation:	Phosphate buffered saline (PBS) Label: APC State: Liquid purified Ig fraction Preservative: 15 mM sodium azide Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	APC
Storage:	Store undiluted the antibody at 2-8°C. **DO NOT FREEZE!** This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD79a molecule
Database Link:	Entrez Gene 973 Human P11912

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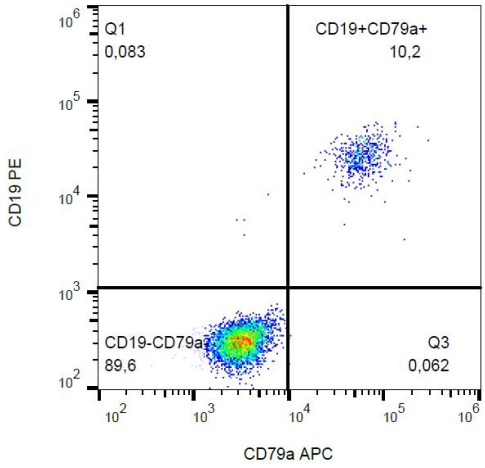
Background: CD79a (Ig alpha, MB1) forms disulfide-linked heterodimer with CD79b (Ig beta). They both are transmembrane proteins with extended cytoplasmic domains containing immunoreceptor tyrosine activation motives (ITAMs), and together with cell surface immunoglobulin they constitute B-cell antigen-specific 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.

Synonyms: IGA, MB1, B-Cell marker

Product images:



Surface staining of CD79a in human peripheral blood with anti-CD79a (HM47) APC.