

Product datasheet for **AM26759PU-N**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	HM47
Applications:	FC, IHC, IP, WB
Recommended Dilution:	Flow cytometry: 1-4 µg/ml. Intracellular staining. Immunoprecipitation. Western blot: 1-2 µg/ml. Immunohistochemistry (paraffin sections).
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) State: Purified State: Liquid Ig fraction Preservative: 15 mM sodium azide, approx. pH 7.4
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD79a molecule
Database Link:	Entrez Gene 973 Human P11912



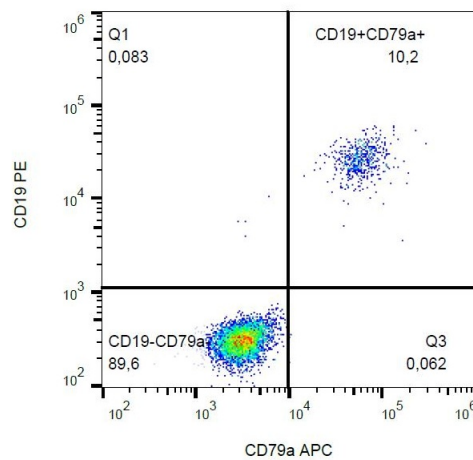
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Background:

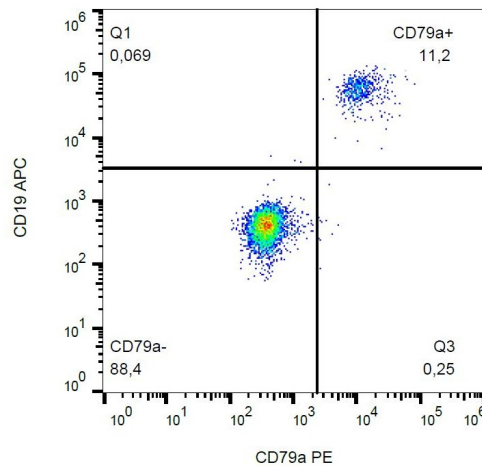
CD79a (Ig alpha, MB1) forms disulfide-linked heterodimer with CD79b (Ig beta). They both are transmembrane proteins with extended cytoplasmic domains containing immunoreceptor tyrosine activation motives (ITAMs), and together with cell surface immunoglobulin they constitute B-cell antigen-specific receptor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



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