

Product datasheet for **AM01322FC-N**

CD79A (202-216) Mouse Monoclonal Antibody [Clone ID: HM57]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HM57
Applications:	FC
Recommended Dilution:	Flow Cytometry analysis of human blood cells: 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Reactivity:	Bovine, Chicken, Equine, Guinea Pig, Human, Mouse, Opossum, Porcine, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to 202-216 amino acid sequence of Human mb-1.
Specificity:	This antibody interacts with CD79a (Ig alpha), a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms.
Formulation:	PBS Label: FITC State: Liquid purified IgG fraction Stabilizer: 0.2% (w/v) BSA (high-grade protease free) Preservative: 15 mM sodium azide Label: Conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use.
Conjugation:	FITC
Storage:	Store undiluted 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



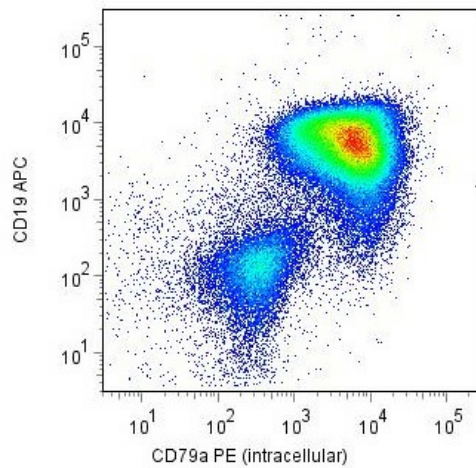
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Background:

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:

Intracellular staining of CD79a with anti-CD79a (HM57) PE (gated on leukemic blast cells) in a patient with childhood B-precursor ALL.