

1A-530-T100

Monoclonal Antibody to CD79a Allophycocyanin (APC) conjugated (100 tests)

Clone:	HM57
Isotype:	Mouse IgG1
Specificity:	The antibody HM57 interacts with CD79a (Ig alpha), a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms. HLDA V; WS Code BC cB018 HLDA VI; WS Code BP 193 HLDA VI; WS Code BP 89 HLDA VI; WS Code B B103 HLDA VI; WS Code B CD79.4
Regulatory Status:	RUO
Immunogen:	Synthetic peptide corresponding to amino acids 202-216 of human CD79a
Species Reactivity:	Human, Porcine, Mouse, Rat, Bovine, Equine (Horse), Guinea pig, Opossum, Rabbit, Chicken, Other not determined
Preparation:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for 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.
Expiration:	See vial label
Lot Number:	See vial label
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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

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