EXBIO Antibodies

PRODUCT DATA SHEET

1A-530-T025

Monoclonal Antibody to CD79a Allophycocyanin (APC) conjugated (25 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 (0.25 ml) is sufficient for 25 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.

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