

1P-676-T100

## Monoclonal Antibody to CD79b Phycoerythrin (PE) conjugated (100 tests)

Clone: CB3-1

**Isotype:** Mouse IgG1

Specificity: The mouse monoclonal antibody CB3-1 recognizes an extracellular epitope of

CD79b (CD79 beta, Ig beta), an approximately 38 kDa component of B cell

receptor (BCR) complex.

HLDA VI.; WS Code CD79.1

Regulatory Status: RUO

**Immunogen:** Fraction of Ig-associated molecules isolated from Ramos B cells

Species Reactivity: Human

**Preparation:** The purified antibody is conjugated with R-Phycoerythrin (PE) 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° 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: CD79b (Ig beta, B29) forms disulfide-linked heterodimer with CD79a (Ig alpha,

MB1). 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. CD79a/b complex interacts with Src-family tyrosine kinase Lyn, which phosphorylates its cytoplasmic ITAM motives to form docking

sites for downstream signaling.



## PRODUCT DATA SHEET

## References:

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\*Garcia Vela J, Delgado I, Benito L, Monteserin M, Garcia Alonso L, Somolinos N, Andreu M, Oña F: CD79b expression in B cell chronic lymphocytic leukemia: its implication for minimal residual disease detection. Leukemia. 1999 Oct;13(10):1501-5.

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\*Matutes E: New additions to antibody panels in the characterisation of chronic lymphoproliferative disorders. J Clin Pathol. 2002 Mar;55(3):180-3.

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