

TECHNICAL DATA SHEET

CyFlow™ CD79a Purified Anti-Hu/Ms/Rt; Clone HM57

REF AA059748

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD79a
Alternative Names	IgA, MB-1, MB1
Clone	HM57
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human Mouse Rat, Pig Cow Horse Rabbit Guinea pig Opossum Chicken
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Synthetic peptide corresponding to amino acids 202-216 of human CD79a

Specificity

The mouse monoclonal antibody HM57 recognizes CD79a, a 40-45 kDa subunit of B cell antigen-specific receptor (BCR) and its early developmental forms.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunohistochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD79a (Ig α , MB1) forms disulfide-linked heterodimer with CD79b (Ig β , B29). 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 λ 5-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.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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