

IO Test Conjugated Antibody CD79a-PC5.5

	Specifications
Specificity	CD79a
Clone	HM47
Hybridoma	NS1 x balb/c
Immunogen	Synthetic peptide (amino acids 202 - 216) of human mb-1 protein containing the cyto-plasmic portion
Isotype	IgG1
Species	Mouse
Purification	Affinity Chromatography
Fluorochrome	R Phycoerythrin-Cyanine 5.5 (PC5.5)
Molar ratio	PC5.5 / Ig: 0.5-1.5
λ excitation	488 nm
Emission Peak	692 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN ₃

REF B42018 Liquid - 0.5 mL

Analyte Specific Reagent.

Analytical and performance characteristics are not established

REAGENTS

Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

WARNING AND PRECAUTIONS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

GHS HAZARD CLASSIFICATION

Not classified as hazardous

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

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Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

SPECIFICITY

The CD79a molecule is part of the CD79a / CD79b disulphide-linked heterodimer, non-covalently bound to surface immunoglobulins to form B cell receptors (BCR) (1). The expression of CD79a appears early in the ontogeny of B cells and its localization at the pro-B stage is therefore cytoplasmic. Later on, the CD79a forms part of the BCR. Its membrane expression persists up to the plasmocytic stage, the stage at which its localization once again becomes cytoplasmic (2).

MAb HM47 reacts with an intracytoplasmic epitope of the CD79a molecule (2). It was assigned to CD79a at the 5th HLDA Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (WS Code: cB017, Section B) (2).

LIMITATIONS

Due to the tandem structure of the fluorochrome, PC5.5 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC5.5. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC5.5 -conjugate.

TRADEMARKS

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ADDITIONAL INFORMATION

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

REFERENCES

1. Reth, M., Hombach, J., Wienands, J., Campbell, K.S., Chien, N., Justement, L.B., Cambier, J.C., "The B-cell antigen receptor complex", 1991, Immunol. Today, 6, 12, 196-200.
2. Engel, P., Wagner, N., Tedder, T.F., "CD79 workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 667-670.



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