

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

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).

The HM47 monoclonal antibody 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).

REAGENT

IOTest CD79a-APC Conjugated Antibody
PN A60793 - 100 tests - Liquid - 10 µL/test*.

Clone	HM47
Isotype	IgG1K, mouse
Immunogen	Synthetic peptide (amino acids 202 – 216) from the cytoplasmic part of the CD79a (Mb-1) protein
Hybridoma Source	NS1 x Balb/c Ascites
Purification	Ion exchange or affinity chromatography
Conjugation	Allophycocyanin (APC)
Molar Ratio	APC / Ig : 0.5 – 1.5
Fluorescence	Excites at 600 – 655 nm Emits at 650 – 680 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 0.2% bovine serum albumin.

STATEMENTS OF WARNING

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 handled as if capable of transmitting infection 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.

STORAGE CONDITIONS AND STABILITY

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

REAGENT PREPARATION

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

SELECTED RESEARCH 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, 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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Printed in France.

Made in France.

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(*): 10 µL is the quantity of product sufficient to stain

5 x 10⁵ cells in a standard immunofluorescence assay