# CD79A monoclonal antibody, clone HM57 (APC)

Catalog # MAB4515 Size 100 Reactions

## Specification

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| **Product Description** | Mouse monoclonal antibody raised against synthetic peptide of CD79A. |
| **Immunogen** | A synthetic peptide corresponding to human CD79A. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 40-45 |
| **Reactivity** | Bovine, Chicken, Guinea pig, Horse, Human, Mouse, Opossum, Pig, Rabbit, Rat |
| **Specificity** | This antibody interacts with CD79a (Ig alpha), a 40-45 KDa subunit of B cell antigen-specific recepto r (BCR) and its early developmental forms. |
| **Form** | Liquid |
| **Conjugation** | APC |
| **Isotype** | IgG1 |
| **Recommend Usage** | Flow Cytometry (10 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.2% BSA, 0.09% sodium azide) |
| **Storage Instruction** | Store in the dark at 4°C. Do not freeze.<br>Avoid prolonged exposure to light.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunohistochemistry (Frozen sections)
- Flow Cytometry

## Gene Info — CD79A

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|---|---|
| **Entrez GeneID** | 973 |
| **Gene Name** | CD79A |
| **Gene Alias** | IGA, MB-1 |
| **Gene Description** | CD79a molecule, immunoglobulin-associated alpha |
| **Omim ID** | 112205 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific component, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. This gene encodes the Ig-alpha protein of the B-cell antigen component. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq |
| **Other Designations** | B-cell antigen receptor complex-associated protein alpha chain\|CD79A antigen\|CD79a antigen (immunoglobulin-associated alpha)\|MB-1 membrane glycoprotein\|surface IgM-associated protein |

## Publication Reference

- Dendritic Cells Generated From Mops condylurus, a Likely Filovirus Reservoir Host, Are Susceptible to and Activated by Zaire Ebolavirus Infection.

  Kathryn M Edenborough, Marcel Bokelmann, Angelika Lander, Emmanuel Couacy-Hymann, Johanna Lechner, Oliver Drechsel, Bernhard Y Renard, Aleksandar Radonic, Heinz Feldmann, Andreas Kurth, Joseph Prescott

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- Autophagy induces apoptosis and death of T lymphocytes in the spleen of pigs infected with CSFV.

  Hongchao Gou, Mingqiu Zhao, Shuangqi Fan, Jin Yuan, Jiedan Liao, Wencheng He, Hailuan Xu, Jinding Chen

  Sci Rep 2017 Oct; 7(1):13577.

  Application: FC/FACS

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- The B29 and mb-1 polypeptides are differentially expressed during human B cell differentiation.

  Mason DY, van Noesel CJ, Cordell JL, Comans-Bitter WM, Micklem K, Tse AG, van Lier RA, van Dongen JJ.

  European Journal of Immunology 1992 Oct; 22(10):2753.

- CD79a: a novel marker for B-cell neoplasms in routinely processed tissue samples.

  Mason DY, Cordell JL, Brown MH, Borst J, Jones M, Pulford K, Jaffe E, Ralfkiaer E, Dallenbach F, Stein H, et al.

  Blood 1995 Aug; 86(4):1453.

- Detection of T and B cells in many animal species using cross-reactive anti-peptide antibodies.

  Jones M, Cordell JL, Beyers AD, Tse AG, Mason DY.

  The Journal of Immunology 1993 Jun; 150(12):5429.


## Pathway

- B cell receptor signaling pathway
- Primary immunodeficiency

## Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Hodgkin Disease
- Lymphoproliferative Disorders
- Waldenstrom Macroglobulinemia
- Werner syndrome

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