

## Mouse CD79a Monoclonal Antibody | anti-CD79a antibody

CD79a (B-Cell Marker)

| CATALOG # | HOST  | REACTIVITY               | APPLICATIONS                                                               |
|-----------|-------|--------------------------|----------------------------------------------------------------------------|
| AAA214613 | Mouse | Human. Others not known. | Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay |

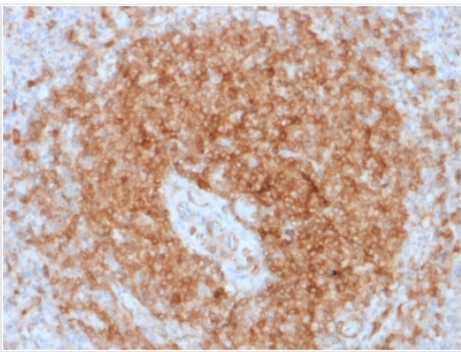
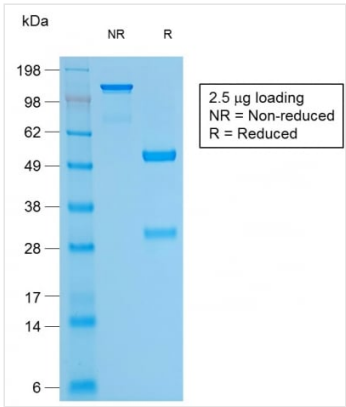
### PRODUCT SYNONYMS

CD79a; Monoclonal Antibody; CD79a (B-Cell Marker); B lymphocyte-specific MB1 protein; B-cell antigen receptor complex-associated protein alpha chain; CD79a molecule immunoglobulin associated alpha; Ig-alpha; IGA; IgM-alpha; Immunoglobulin-associated alpha; Ly54; MB-1 membrane glycoprotein; Membrane-bound immunoglobulin-associated protein; Surface IgM-associated protein; anti-CD79a antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Reactivity                                      | Human. Others not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Isotype                                         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clone Number                                    | rIG/764                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                                     | A disulphide-linked heterodimer, consisting of mb-1 (or CD79a) and B29 (or CD79b) polypeptides, is non-covalently associated with membrane-bound immunoglobulins on B cells. This complex of mb-1 and B29 polypeptides and immunoglobulin constitute the B cell Ag receptor. CD79a first appears at pre B cell stage, early in maturation, and persists until the plasma cell stage where it is found as an intracellular component. CD79a is found in the majority of acute leukemias of precursor B cell type, in B cell lines, B cell lymphomas, and in some myelomas. It is not present in myeloid or T cell lines. Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well. |
| Form/Format                                     | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                 | 226                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Applicable Applications for anti-CD79a antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Immunogen                                       | Recombinant full-length alpha chain of human Ig protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cellular Localization                           | Cell Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hu-chromosome Location                          | 19q13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Positive Control                                | Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                         | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

IMAGES



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Spleen stained with CD79a Mouse Recombinant Monoclonal Antibody (rIGA/764).

**SDS-PAGE**  
SDS-PAGE Analysis of Purified CD79a Mouse Recombinant Monoclonal Antibody (rIGA/764).

ADDITIONAL INFORMATION

|            |                                                                                                                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | van Noesel, C.J., et al. 1991. The membrane IgM-associated heterodimer on human B cells is a newly defined B cell antigen that contains the protein product of the mb-1 gene. J. Immunol. 146: 3881-3888. |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI GI #                        | 4502685                                                                  |
| NCBI GeneID                      | 973                                                                      |
| NCBI Accession #                 | NP_001774.1                                                              |
| NCBI GenBank Nucleotide #        | NM_001783.3                                                              |
| UniProt Accession #              | P11912; Q53FB8; A0N775                                                   |
| Molecular Weight                 | 44kDa                                                                    |
| NCBI Official Full Name          | B-cell antigen receptor complex-associated protein alpha chain isoform 1 |
| NCBI Official Synonym Full Names | CD79a molecule                                                           |
| NCBI Official Symbol             | CD79A                                                                    |
| NCBI Official Synonym Symbols    | IGA; MB-1                                                                |
| NCBI Protein Information         | B-cell antigen receptor complex-associated protein alpha chain           |
| UniProt Protein Name             | B-cell antigen receptor complex-associated protein alpha chain           |
| UniProt Gene Name                | CD79A                                                                    |
| UniProt Synonym Gene Names       | IGA; MB1                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.