

## Rabbit anti-Mouse CD79b Monoclonal Antibody | anti-CD79b antibody

Anti-CD79b [HM79-16]

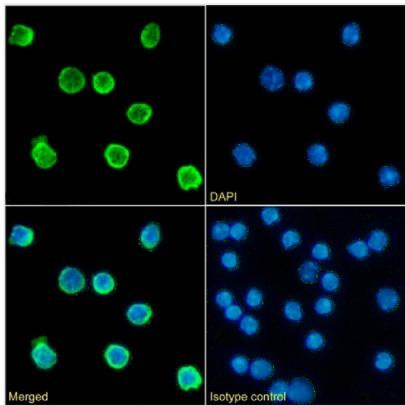
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                    |
|-----------|--------|------------|-------------------------------------------------------------------------------------------------|
| AAA72170  | Rabbit | Mouse      | Immunohistochemistry, Immunofluorescence, Immunoprecipitation, Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

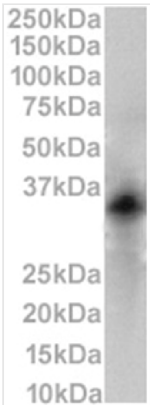
CD79b; Monoclonal Antibody; Anti-CD79b [HM79-16]; Ig-beta; AGM6; B29; IGB; CD79b molecule;; anti-CD79b antibody

### PRODUCT SPECIFICATIONS

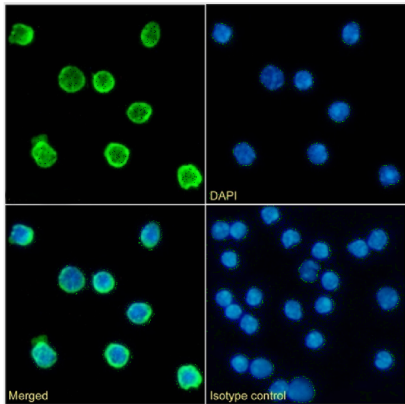
|                                                 |                                                                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                            |
| Reactivity                                      | Mouse                                                                                                                                                                                             |
| Clonality                                       | Monoclonal                                                                                                                                                                                        |
| Isotype                                         | Rabbit IgG, lambda                                                                                                                                                                                |
| Clone Number                                    | HM79-16                                                                                                                                                                                           |
| Specificity                                     | Reacts with an extracellular epitope of CD79b.                                                                                                                                                    |
| Purity/Purification                             | Purified antibody. Protein A affinity purified                                                                                                                                                    |
| Form/Format                                     | PBS with 0.02% Proclin 300.                                                                                                                                                                       |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                            |
| Applicable Applications for anti-CD79b antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)                                                                                          |
| Chimeric Use Statement                          | This chimeric rabbit antibody was made using the variable domain sequences of the original Armenian Hamster IgG format, for improved compatibility with existing reagents, assays and techniques. |
| PMID                                            | 9418137                                                                                                                                                                                           |
| Preparation and Storage                         | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.                                                                                                    |



**IF (Immunofluorescence)**  
Immunofluorescence staining of fixed mouse splenocytes with anti-CD79b antibody HM79-16. Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes on Shi-fix coverslips stained with the chimeric rabbit IgG version HM79-16 ( ) at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



**WB (Western Blot)**  
Western Blot using anti-CD79b antibody HM79-16. Mouse spleen tissue lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of HM79-16 ( ) at 0.1ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



**IF (Immunofluorescence)**  
Immunofluorescence staining of fixed mouse splenocytes with anti-CD79b antibody HM79-16. Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes on Shi-fix coverslips stained with the chimeric rabbit IgG version HM79-16 ( ) at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD79b antibody | Recombinant monoclonal antibody to CD79b. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma HM79-16.<br>HM79-16 was initially generated by purifying CD79b from WEHI231 B cells and used for immunisation of footpads of an Armenian hamster. Hybridoma supernatants were screened for positive reactivity in surface immunofluorescence of WEHI231 and then the specificity to CD79b was tested by immuno-precipitation. Recombinant anti-CD79 antibodies were engineered by cloning and sequencing the full-length IG heavy and light chains of an Armenian hamster ( <i>Cricetulus migratorius</i> ). |
| Product Categories/Family for anti-CD79b antibody   | Immunology; Autoimmunity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| References                                          | Mariko Koyama et al. CD79alpha/CD79beta heterodimers are expressed on pro-B cell surfaces without associated u heavy chain International Immunology, Vol. 9, No. 11, pp. 1767-1772 1997<br>Note on publication: Describes the expression of the CD79b and the use of new monoclonal antibodies to detect CD79b on pro-B cell surfaces.                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 6680375                                                                                                                                                                |
| NCBI GeneID                      | 15985                                                                                                                                                                  |
| NCBI Accession #                 | NP_032365.1                                                                                                                                                            |
| NCBI GenBank Nucleotide #        | NM_008339.2                                                                                                                                                            |
| UniProt Accession #              | P15530; Q4FJP4                                                                                                                                                         |
| Molecular Weight                 | 25,726 Da                                                                                                                                                              |
| NCBI Official Full Name          | B-cell antigen receptor complex-associated protein beta chain                                                                                                          |
| NCBI Official Synonym Full Names | CD79B antigen                                                                                                                                                          |
| NCBI Official Symbol             | Cd79b                                                                                                                                                                  |
| NCBI Official Synonym Symbols    | B29; Igb; Igbeta; Ig-beta                                                                                                                                              |
| NCBI Protein Information         | B-cell antigen receptor complex-associated protein beta chain; immunoglobulin-associated beta; B-cell-specific glycoprotein B29; immunoglobulin-associated B29 protein |
| UniProt Protein Name             | B-cell antigen receptor complex-associated protein beta chain                                                                                                          |
| UniProt Gene Name                | Cd79b                                                                                                                                                                  |
| UniProt Synonym Gene Names       | Igb                                                                                                                                                                    |
| UniProt Entry Name               | CD79B_MOUSE                                                                                                                                                            |

**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd79b-antibody-clone-hm79-16-immunohistochemistry-immunofluorescence-immunoprecipitation-flow-cytometry-elisa/72170>