

anti-Human CD79b Antibody | anti-CD79B antibody

Anti-Hu CD79b PE-Cy7

CATALOG # AAA129228	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
-------------------------------	----------------------------	---

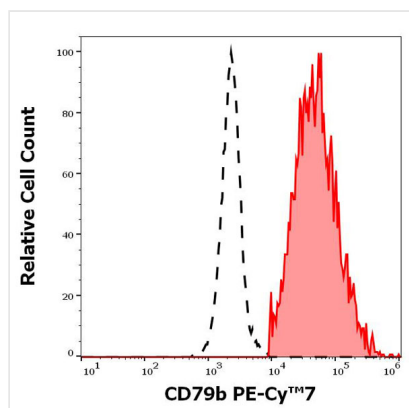
PRODUCT SYNONYMS

CD79b; Anti-Hu CD79b PE-Cy7; CD79b molecule; BCR beta; Ig-beta; B29; IGB; anti-CD79B antibody

PRODUCT SPECIFICATIONS

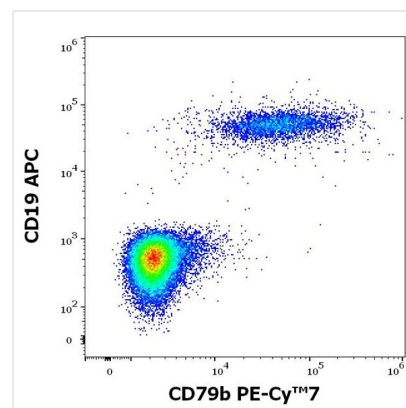
Reactivity	Human
Isotype	Mouse IgG1 kappa
Clone Number	CB3-1
Specificity	The mouse monoclonal antibody CB3-1 recognizes an extracellular epitope of CD79b (CD79 beta, Ig beta), an approximately 38 kDa component of B cell receptor (BCR) complex.
Form/Format	PE-Cy7 Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffer
Applicable Applications for anti-CD79B antibody	FCM/FACS (Flow Cytometry)
Immunogen	Fraction of Ig-associated molecules isolated from Ramos B cells
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



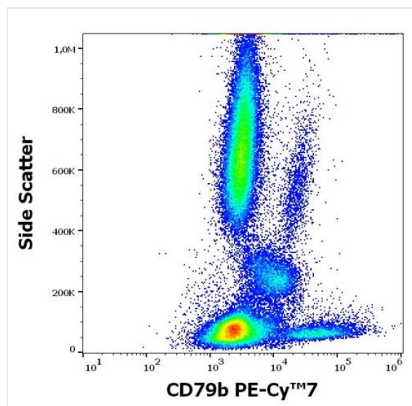
FCM/FACS (Flow Cytometry)

Separation of human CD19 positive CD79a positive lymphocytes (red-filled) from CD19 negative CD79a negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD79b (CB3-1) PE-Cy7 antibody (4 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD79b (CB3-1) PE-Cy7 antibody (4 ?l reagent / 100 ?l of peripheral whole blood) and anti-human CD19 (LT19) APC antibody (10 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD79b (CB3-1) PE-Cy™7 antibody (4 µl reagent / 100 µl of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD79B antibody	CD79b (Ig beta, B29) forms disulfide-linked heterodimer with CD79a (Ig alpha, MB1). They both are transmembrane proteins with extended cytoplasmic domains containing immunoreceptor tyrosine activation motives (ITAMs), and together with cell surface immunoglobulin they constitute B-cell antigen-specific receptor (BCR). CD79a and b are the first components of BCR that are expressed developmentally. They appear on pro-B cells in association with the endoplasmic reticulum chaperone calnexin. Subsequently, in pre-B cells, CD79 heterodimer is associated with lambda5-VpreB surrogate immunoglobulin and later with antigen-specific surface immunoglobulins. CD79a/b complex interacts with Src-family tyrosine kinase Lyn, which phosphorylates its cytoplasmic ITAM motives to form docking sites for downstream signaling.
References	*Nakamura T, Kubagawa H, Cooper MD: Heterogeneity of immunoglobulin-associated molecules on human B cells identified by monoclonal antibodies. <i>Proc Natl Acad Sci U S A</i>. 1992 Sep 15;89(18):8522-6., URL: https://www.ncbi.nlm.nih.gov/pubmed/1382292,*Zheng B, Fuji RN, Elkins K, Yu SF, Fuh FK, Chuh J, Tan C, Hongo JA, Raab H, Kozak KR, Williams M, McDorman E, Eaton D, Ebens A, Polson AG: In vivo effects of targeting CD79b with antibodies and antibody-drug conjugates. <i>Mol Cancer Ther</i>. 2009 Oct;8(10):2937-46., URL: https://www.ncbi.nlm.nih.gov/pubmed/19808977,*Garcia Vela J, Delgado I, Benito L, Monteserin M, Garcia Alonso L, Somolinos N, Andreu M, Oña F: CD79b expression in B cell chronic lymphocytic leukemia: its implication for minimal residual disease detection. <i>Leukemia</i>. 1999 Oct;13(10):1501-5., URL: https://www.ncbi.nlm.nih.gov/pubmed/10516749,*Rassenti LZ, Kipps TJ: Expression of Ig-beta (CD79b) by chronic lymphocytic leukemia B cells that lack immunoglobulin heavy-chain allelic exclusion. <i>Blood</i>. 2000 Apr 15;95(8):2725-7., URL: https://www.ncbi.nlm.nih.gov/pubmed/10753858,*Dornan D, Bennett F, Chen Y, Dennis M, Eaton D, Elkins K, French D, Go MA, Jack A, Junutula JR, Koeppen H, Lau J, McBride J, Rawstron A, Shi X, Yu N, Yu SF, Yue P, Zheng B, Ebens A, Polson AG: Therapeutic potential of an anti-CD79b antibody-drug conjugate, anti-CD79b-vc-MMAE, for the treatment of non-Hodgkin lymphoma. <i>Blood</i>. 2009 Sep 24;114(13):2721-9., URL: https://www.ncbi.nlm.nih.gov/pubmed/19633198,*Matutes E: New additions to antibody panels in the characterisation of chronic lymphoproliferative disorders. <i>J Clin Pathol</i>. 2002 Mar;55(3):180-3., URL: http://www.ncbi.nlm.nih.gov/pubmed/11896067,*D'Arena G, Cascavilla N, Musto P, Colella Bisogno R, Pistolese G, Carotenuto M: CD79b expression in B-cell chronic lymphocytic leukemia. <i>Haematologica</i>. 2000 May;85(5):556-7., URL: http://www.ncbi.nlm.nih.gov/pubmed/10800181,

NCBI AND UNIPROT INFORMATION

NCBI GI #	728994
NCBI GeneID	974
UniProt Accession #	P40259; Q53FS2; Q9BU06
Molecular Weight	229
NCBI Official Full Name	B-cell antigen receptor complex-associated protein beta chain
NCBI Official Synonym Full Names	CD79b molecule, immunoglobulin-associated beta
NCBI Official Symbol	CD79B

NCBI Official Synonym Symbols	B29; IGB; AGM6
NCBI Protein Information	B-cell antigen receptor complex-associated protein beta chain; Ig-beta; B-cell-specific glycoprotein B29; immunoglobulin-associated B29 protein; CD79b antigen (immunoglobulin-associated beta)
UniProt Protein Name	B-cell antigen receptor complex-associated protein beta chain
UniProt Gene Name	CD79B
UniProt Synonym Gene Names	B29; IGB
UniProt Entry Name	CD79B_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-antibody/cd79b/129228>