



Datasheet for ABIN1027694

anti-CD79b antibody



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Overview

Quantity:	0.1 mg
Target:	CD79b (CD79B)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD79b antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC)

Product Details

Immunogen:	Fraction of Ig-associated molecules isolated from Ramos B cells
Clone:	CB3-1
Isotype:	IgG1 kappa
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.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD79b (CD79B)
Alternative Name:	CD79b (CD79B Products)
Background:	CD79b molecule,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.,BCR beta, Ig-beta, B29, IGB
Gene ID:	974
UniProt:	P40259
Pathways:	BCR Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Zheng, Fuji, Elkins, Yu, Fuh, Chuh, Tan, Hongo, Raab, Kozak, Williams, McDorman, Eaton, Ebens, Polson: "In vivo effects of targeting CD79b with antibodies and antibody-drug conjugates." in: **Molecular cancer therapeutics**, Vol. 8, Issue 10, pp. 2937-46, (2009) ([PubMed](#)).

Dornan, Bennett, Chen, Dennis, Eaton, Elkins, French, Go, Jack, Junutula, Koeppen, Lau, McBride, Rawstron, Shi, Yu, Yu, Yue, Zheng, Ebens, Polson: "Therapeutic potential of an anti-CD79b antibody-drug conjugate, anti-CD79b-vc-MMAE, for the treatment of non-Hodgkin lymphoma." in: **Blood**, Vol. 114, Issue 13, pp. 2721-9, (2009) ([PubMed](#)).

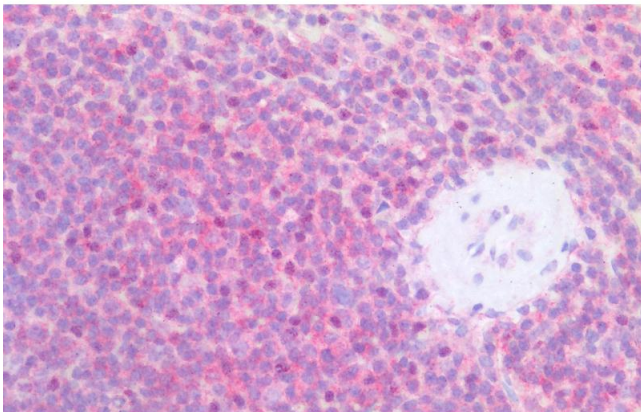
Matutes: "New additions to antibody panels in the characterisation of chronic lymphoproliferative disorders." in: **Journal of clinical pathology**, Vol. 55, Issue 3, pp. 180-3, (2002) ([PubMed](#)).

DArena, Cascavilla, Musto, Colella Bisogno, Pistolese, Carotenuto: "CD79b expression in B-cell chronic lymphocytic leukemia." in: **Haematologica**, Vol. 85, Issue 5, pp. 556-7, (2000) ([PubMed](#)).

Rassenti, Kipps: "Expression of Ig-beta (CD79b) by chronic lymphocytic leukemia B cells that lack immunoglobulin heavy-chain allelic exclusion." in: **Blood**, Vol. 95, Issue 8, pp. 2725-7, (2000) ([PubMed](#)).

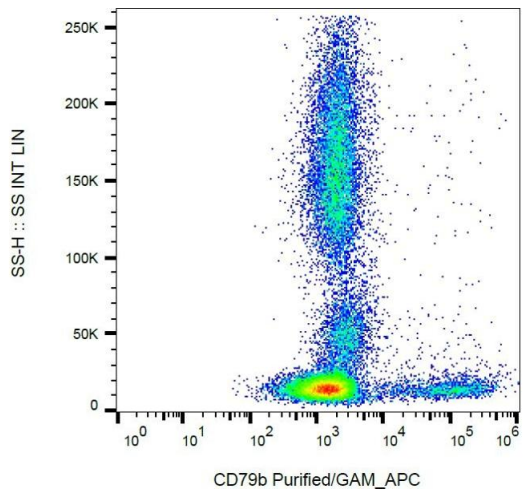
There are more publications referencing this product on: [Product page](#)

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining of human spleen (paraffin-embedded sections) with anti-CD79b (CB3-1), 10 µg/mL.



Flow Cytometry

Image 2. Flow cytometry analysis (surface staining) of CD79b in human peripheral blood with anti-CD79b (CB3-1) purified / GAM-APC.