abcam

Product datasheet

Anti-CD79b antibody [CB3-1] ab130422

Recombinant

2 References 2 Images

Overview

Product name	Anti-CD79b antibody [CB3-1]
Description	Mouse monoclonal [CB3-1] to CD79b
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cyt: Human peripheral blood; Ramos cells.
General notes	This product has switched from a hybridoma to recombinant production method on 27th October 2020. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	CB3-1
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab130422 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/50. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P.

Target

Function Required in cooperation with CD79A for initiation of the signal transduction cascade activated by the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Enhances phosphorylation of CD79A, possibly by recruiting kinases which phosphorylate CD79A or by recruiting proteins which bind to CD79A and protect it from dephosphorylation.

Tissue specificity B-cells.

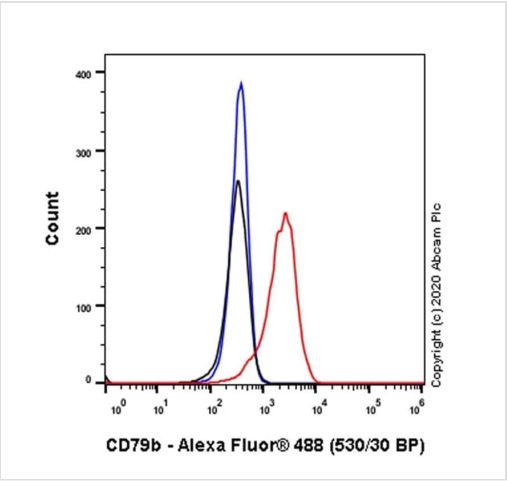
Involvement in disease Defects in CD79B are the cause of agammaglobulinemia type 6 (AGM6) [MIM:612692]. It is a primary immunodeficiency characterized by profoundly low or absent serum antibodies and low or absent circulating B cells due to an early block of B-cell development. Affected individuals develop severe infections in the first years of life.

Sequence similarities Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Contains 1 ITAM domain.

Post-translational modifications Phosphorylated on tyrosine upon B-cell activation.

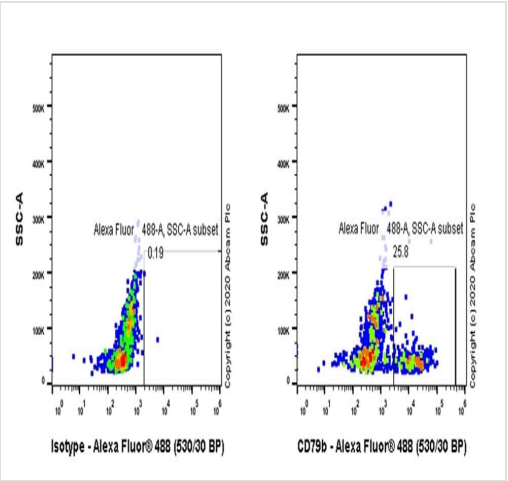
Cellular localization Cell membrane. Following antigen binding, the BCR has been shown to translocate from detergent-soluble regions of the cell membrane to lipid rafts although signal transduction through the complex can also occur outside lipid rafts.

Images



Flow Cytometry - Anti-CD79b antibody [CB3-1] (ab130422)

Flow cytometric analysis of Ramos (human Burkitt's lymphoma cell line) cells labeling CD79b with ab130422 at 1/50 (10 µg/mL) dilution (Red) compared with an Isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Fc receptors were blocked with 20 µg/mL Human IgG for 15 minutes on ice. Primary antibody staining for 30 minutes on ice. Secondary antibody staining for 30 minutes on ice.



Flow Cytometry - Anti-CD79b antibody [CB3-1] (ab130422)

Flow cytometry staining of human PBMC for CD79b with ab130422 at 1/50 dilution (10 µg/mL) (right) or an isotype control (left). Fc receptors were blocked with 20 µg/mL Human IgG for 15 minutes on ice. Primary antibody staining for 30 minutes on ice. Secondary antibody staining for 30 minutes on ice.

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