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Product datasheet

PE Anti-CD79b antibody [AT105-1] ab33295

Overview

Product name	PE Anti-CD79b antibody [AT105-1]
Description	PE Mouse monoclonal [AT105-1] to CD79b
Host species	Mouse
Conjugation	PE. Ex: 488nm, Em: 575nm
Specificity	Recognises an extracellular region of human CD79b.
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to an extracellular region of human CD79 beta.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.40 Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	AT105-1
Myeloma	NS1
Isotype	IgG1

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.

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