

Product datasheet

APC Anti-CD45.1 antibody [A20] α b25348

[3 References](#) [1 Image](#)

Overview

Product name	APC Anti-CD45.1 antibody [A20]
Description	APC Mouse monoclonal [A20] to CD45.1
Host species	Mouse
Conjugation	APC. Ex: 645nm, Em: 660nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to CD45.1. SJL mouse thymocytes and splenocytes
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze. Store undiluted.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.1% Gelatin, 0.14% Monobasic dihydrogen sodium phosphate, 0.87% Sodium chloride</p>
Purity	Affinity purified
Clonality	Monoclonal
Clone number	A20
Isotype	IgG2a
Light chain type	kappa

Applications

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab25348 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		Use at an assay dependent concentration.

Target

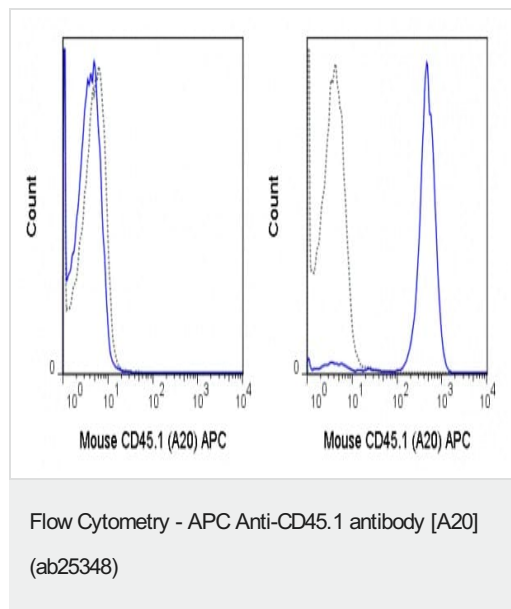
Relevance

CD45 is an essential regulator of leukocyte activation and development, and is now known to be a protein tyrosine phosphatase, e.g. CD45 is able to dephosphorylate the Src family of protein kinases. This activity is now known to be required for signal transduction induced by T and B cell antigen receptor engagement, cytokine signaling and Fc receptor stimulation. The functional state of CD45 also has a pronounced effect on lymphocyte development. CD45 exists in multiple forms, such as the restricted variants and as allelic forms CD45.1/Ly5.1 and CD45.2/Ly5.2. The former arises as a result of alternative splicing of different exons. The specificity of antibodies to CD45.1 and CD45.2 has been exploited in studies in which resolution of donor and recipient cells is essential, such as in gene therapy or bone marrow transplantation.

Cellular localization

Type I membrane protein.

Images



Flow Cytometry analysis of C57Bl/6 (left panel) or SJL (right panel) splenocytes labeling CD45.1 with ab25348 at 0.5 µg (solid line) or Mouse IgG2a (Allophycocyanin) isotype control at 0.5 µg (dashed line).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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