

Datasheet for ABIN6657859  
**anti-CD45 antibody (APC)**



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2 Images

## Overview

Quantity:	100 µg
Target:	CD45 (PTPRC)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is conjugated to APC
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Western Blotting (WB), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

## Product Details

Purpose:	CD45 Allophycocyanin Antibody
Immunogen:	Anti-CD45 Antibody (Monoclonal) was produced by repeated immunizations with CD45 antigen.
Clone:	30-F11
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	Cross reactivity with CD45 from other sources has not been tested.
Purification:	Allophycocyanin conjugated CD45 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD45.
Sterility:	Sterile filtered
Labeling Ratio:	1-2

## Target Details

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Target:	CD45 (PTPRC)
Alternative Name:	CD45 ( <a href="#">PTPRC Products</a> )
Background:	<p>Synonyms: Receptor-type tyrosine-protein phosphatase C, , ukocyte common antigen, L-CA, Lymphocyte antigen 5, Ly-5, T200, CD45, Ptprc, Ly-5</p> <p>Background: The 30-F11 antibody reacts with mouse CD45, which is one of the most abundant hematopoietic markers and is expressed on all leukocytes (the Leukocyte Common Antigen, LCA). CD45 is a protein tyrosine phosphatase existing in several isoforms, each being generated and expressed in cell-specific patterns. With its broad cell distribution, CD45 is critical for many leukocyte functions, regulating signal transduction and cell activation associated with the T cell receptor, B cell receptor, and IL-2 receptor. Other forms of CD45, with restricted cellular expression, include CD45R (B220), CD45RA, CD45RB, CD45RO and others. The 30-F11 antibody is widely used as a leukocyte marker for B cells, T cell subsets and NK cell subsets.</p> <p>Gene Name: Ptprc</p>

UniProt:	<a href="#">P06800</a>
Pathways:	<a href="#">TCR Signaling</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">BCR Signaling</a>

## Application Details

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Application Notes:	<p>Immunoprecipitation_Dilution: User Optimized</p> <p>Immunohistochemistry_Dilution: User Optimized</p> <p>Flow_Cytometry_Dilution: 10 µL/10<sup>6</sup> cells (0.1 µg)</p> <p>IF_Microscopy_Dilution: User Optimized</p> <p>Western_Blot_Dilution: User Optimized</p>
Comment:	Anti-CD45 is tested for Flow Cytometry and useful for Immunoprecipitation, Immunohistochemistry, Immunofluorescence, and Western Blot using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Restrictions:	For Research Use only

## Handling

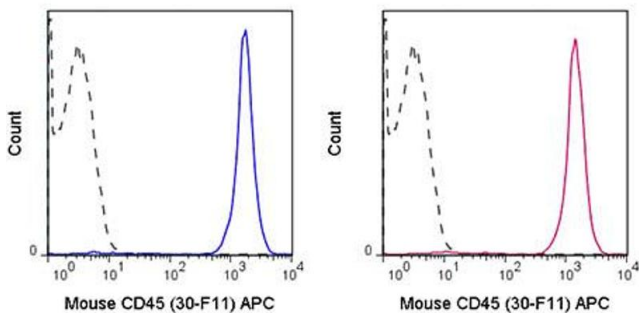
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Format:	Liquid
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## Handling

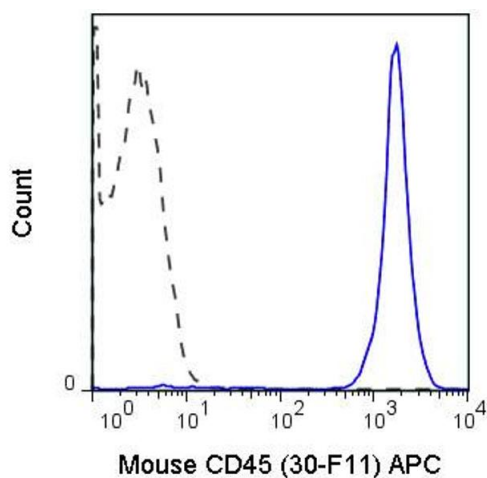
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.1 % Gelatin Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiry Date:	6 months

## Images



### Flow Cytometry

**Image 1.** Flow Cytometry of anti-CD45 APC - 200-526-N83 Flow Cytometry of anti-CD45 Allophycocyanin Conjugated Monoclonal Antibody. Cells: C57Bl/6 splenocytes. Stimulation: None. Antibody: (Dotted Line) APC Mouse IgG2b isotype control; (Blue Line) Allophycocyanin Anti-CD45 antibody using 0.125µg; (Red line) APC Anti-CD45 antibody control.



### Flow Cytometry

**Image 2.** Flow Cytometry of anti-CD45 APC - 200-526-N83 Flow Cytometry of anti-CD45 Allophycocyanin Conjugated Monoclonal Antibody. Cells: C57Bl/6 splenocytes. Stimulation: None. Antibody: (Dotted Line) APC Mouse IgG2b isotype control; (Blue Line) Allophycocyanin Anti-CD45 antibody using 0.125µg.