

Datasheet for ABIN1981869

anti-CD45 antibody

2 Images

6 Publications



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD45 (PTPRC)
Reactivity:	Human, Mouse, Cat
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Ms CD45R Purified
Immunogen:	Abelson murine leukemia virus-induced pre-B tumor cells
Clone:	RA3-6B2
Isotype:	IgG2a kappa
Specificity:	The rat monoclonal antibody RA3-6B2 recognizes an extracellular epitope on CD45R, which is expressed at all developmental stages of B cells, including activated B cells, but also on subsets of NK and T cells. T cells detected by this antibody are supposed to be in activated state.
Cross-Reactivity (Details):	Human, Mouse, Feline (Cat)
Purification:	Purified by protein-G affinity chromatography.

Product Details

Purity: > 95 % (by SDS-PAGE)

Target Details

Target: CD45 (PTPRC)

Alternative Name: CD45R ([PTPRC Products](#))

Background: CD45R, also known as B220, is a receptor-type protein tyrosine phosphatase glycoprotein. It is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45R expression also identifies a subset of murine bone marrow cells able to form osteoclast-like cells.,PTPRC, T200R

Pathways: [TCR Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [CXCR4-mediated Signaling Events](#), [BCR Signaling](#)

Application Details

Application Notes: Flow cytometry: Recommended dilution: 1-4 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. Do not use after expiration date stamped on vial label.

Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.

Publications

Product cited in: Montecino-Rodriguez, Leathers, Dorshkind: "Identification of a B-1 B cell-specified progenitor."

in: **Nature immunology**, Vol. 7, Issue 3, pp. 293-301, (2006) ([PubMed](#)).

Rothaeusler, Baumgarth: "Evaluation of intranuclear BrdU detection procedures for use in multicolor flow cytometry." in: **Cytometry. Part A : the journal of the International Society for Analytical Cytology**, Vol. 69, Issue 4, pp. 249-59, (2006) ([PubMed](#)).

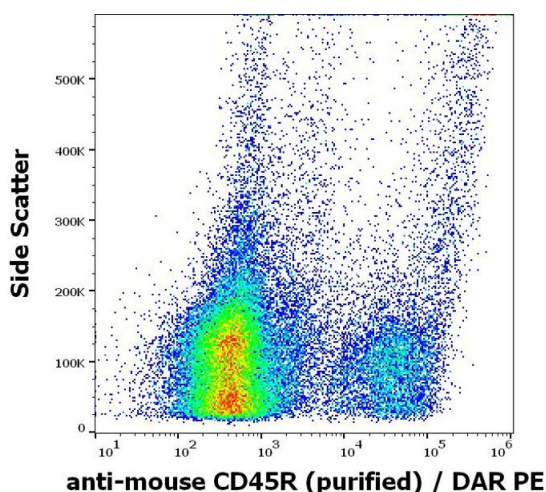
Cappione, Pugh-Bernard, Anolik, Sanz: "Lupus IgG VH4.34 antibodies bind to a 220-kDa glycoform of CD45/B220 on the surface of human B lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 172, Issue 7, pp. 4298-307, (2004) ([PubMed](#)).

Tsurui, Nishimura, Hattori, Hirose, Okumura, Shirai: "Seven-color fluorescence imaging of tissue samples based on Fourier spectroscopy and singular value decomposition." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 48, Issue 5, pp. 653-62, (2000) ([PubMed](#)).

Rada, Ehrenstein, Neuberger, Milstein: "Hot spot focusing of somatic hypermutation in MSH2-deficient mice suggests two stages of mutational targeting." in: **Immunity**, Vol. 9, Issue 1, pp. 135-41, (1998) ([PubMed](#)).

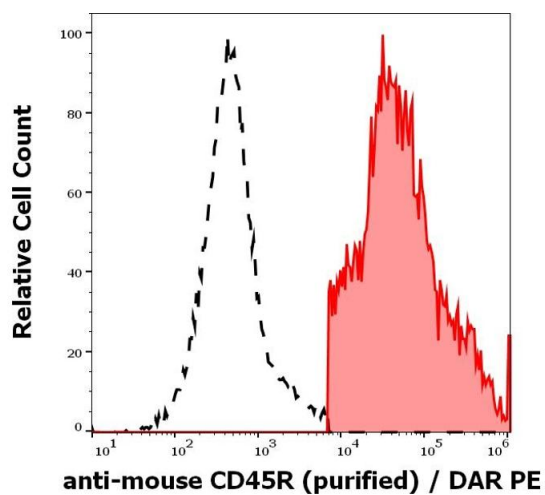
There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD45R (RA3-6B2) purified antibody (concentration in sample 1 µg/mL, DAR PE).



Flow Cytometry

Image 2. Separation of murine CD45R positive splenocytes (red-filled) from CD45R negative splenocytes (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD45R (RA3-6B2) purified antibody (concentration in sample 1 μ g/mL, DAR PE).