Datasheet for ABIN1981850

anti-CD45 antibody

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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), Functional Studies (Func)

Product Details

Purpose:	Anti-Ms CD45R Purified Low Endotoxin
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)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

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.,PTPRCR, 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:	Functional application: Modulation of B cell responses. 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
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:	Lochhead, Sonderegger, Ma, Brewster, Cornwall, Maylor-Hagen, Miller, Zachary, Weis, Weis: " Endothelial cells and fibroblasts amplify the arthritogenic type I IFN response in murine Lyme

Publications

disease and are major sources of chemokines in Borrelia burgdorferi-infected joint tissue." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 189, Issue 5, pp. 2488-501, (2012) (PubMed).

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).

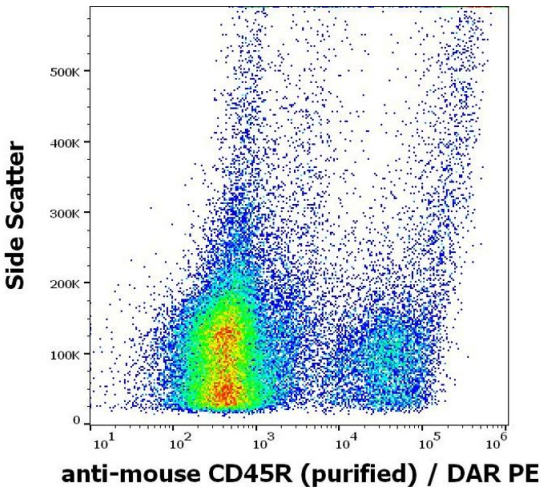
Rothaeusler, Baumgarth: "Evaluation of intranuclear BrdU detection procedures for use in multicolor flow cytometry." in: **Cytometry. Part A : the journal of the International Society for Analytical Cytology**, Vol. 69, Issue 4, pp. 249-59, (2006) (PubMed).

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).

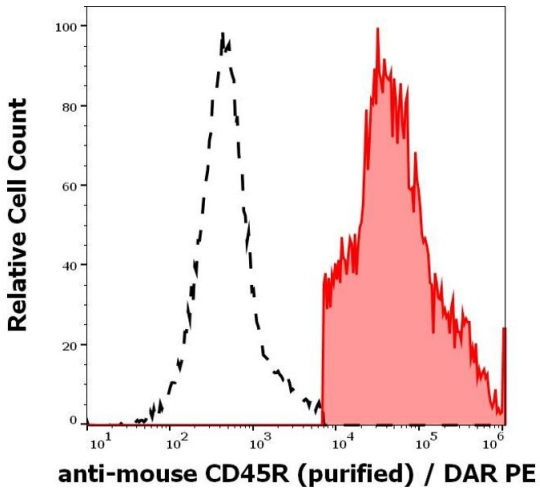
There are more publications referencing this product on: Product page

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 µg/mL, DAR PE).