

# **Product datasheet**

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# ARG65534 anti-CD45R / B220 antibody [RA3-6B2] (PE)

Package: 100 μg Store at: 4°C

## **Summary**

Product Description PE-conjugated Rat Monoclonal antibody [RA3-6B2] recognizes CD45R / B220

Tested Reactivity Hu, Ms, Cat

Tested Application BL, FACS, IHC-Fr, IHC-P, WB

Host Rat

Clone RA3-6B2

Target Name IgG2a, kappa CD45R / B220

Species Mouse

Immunogen Abelson murine leukemia virus-induced pre-B cell lymphoma

Conjugation PE

Alternate Names LY5; GP180; Receptor-type tyrosine-protein phosphatase C; CD45; L-CA; CD antigen CD45; Leukocyte

common antigen; CD45R; LCA; T200; EC 3.1.3.48; B220

## **Application Instructions**

Application table	Application	Dilution
	BL	Assay-dependent
	FACS	< 0.2 µg/10^6 cells
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### **Properties**

Form	Liquid	
Buffer	PBS, 0.1% Sodium azide and Sucrose.	
Preservative	0.1% Sodium azide	
Stabilizer	Sucrose	
Concentration	0.1 mg/ml	
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be	

Note

For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Database links

GeneID: 19264 Mouse

GeneID: 5788 Human

Swiss-port # P08575 Human

Background

CD45 is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq, Jun 2012]

Function

CD45: Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity.

(Microbial infection) Acts as a receptor for human cytomegalovirus protein UL11 and mediates binding of UL11 to T-cells, leading to reduced induction of tyrosine phosphorylation of multiple signaling proteins upon T-cell receptor stimulation and impaired T-cell proliferation. [UniProt]

Highlight

Related products:

CD45R antibodies; CD45R Duos / Panels; Anti-Rat IgG secondary antibodies;

Related news:

**Exploring Antiviral Immune Response** 

Research Area

Developmental Biology antibody; Immune System antibody; Neuroscience antibody; Signaling Transduction antibody; Mouse Inflammatory Cell Marker antibody; B Cell Marker antibody

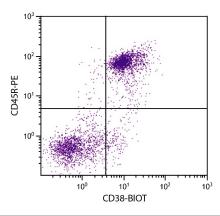
Calculated Mw

147 kDa

PTM

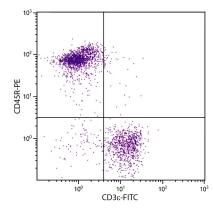
Heavily N- and O-glycosylated.

## **Images**



#### ARG65534 anti-CD45R / B220 antibody [RA3-6B2] (PE) FACS image

Flow Cytometry: BALB/c Mouse splenocytes stained with ARG20919 anti-CD38 antibody [NIMR-5] (Biotin) and ARG65534 anti-CD45R / B220 antibody [RA3-6B2] (PE).



## ARG65534 anti-CD45R / B220 antibody [RA3-6B2] (PE) FACS image

Flow Cytometry: BALB/c Mouse splenocytes stained with ARG65534 anti-CD45R / B220 antibody [RA3-6B2] (PE) and ARG20817 anti-CD3e antibody [C363.29B] (FITC).