

Anti-CD45R [RA3-6B2] Standard Size Ab01031-1.32

This antibody has a D265A mutation affecting Fc receptor engagement.

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1-D265A, Fc Silenced, Kappa

Clone Number: RA3-6B2

Alternative Name(s) of Target: B220; CD45; CD45 antigen; Cluster designation 45R; L-CA; Leukocyte common antigen; Ly-5; lymphocyte antigen 5; lymphocyte common antigen; Lyt-4; protein tyrosine phosphatase, receptor type, C; protein tyrosine phosphatase, receptor type, c polypeptide; Receptor-type tyrosine-protein phosphatase C; T200; T200 glycoprotein; T200 leukocyte common antigen

UniProt Accession Number of Target Protein: P06800

Published Application(s): WV, FC, IF, IHC

Published Species Reactivity: Mouse

Immunogen: This antibody was raised in Lou-M rats using a popliteal lymph node immunisation and fusion protocol as described by Martiniello et al (1994)

Specificity: This antibody is specific for murine CD45R antigen which is expressed on B lymphocytes throughout their development from early pro-B stages onwards and is down-regulated upon terminal differentiation to plasma cells. Apart from B cells, CD45R is expressed on a small subset of dendritic cells (plasmacytoid dendritic cells). The CD45R mAb clone RA3-6B2 specifically recognizes the exon A-restricted isoform of mouse CD45.

Application Notes: This antibody has been used in FACS analyses, immunoprecipitation, immunoblotting, and immunohistochemistry in various studies, such as to understand the role of PD-1 in maintaining islet-specific tolerance in type 1 diabetes (Martinov et al, 2016), to investigate how Staphylococcus aureus enterotoxins spread systemically and trigger inflammatory cascades (Svedova et al, 2016), to highlight the physiologic importance of cell-type specific balancing of AhR/AhRR expression in response to microbial, nutritional and other environmental stimuli (Brandstätter et al, 2016), and to examine the role of FBXW7 in suppression of cancer metastasis in a non-cell-autonomous manner (Yumimoto et al, 2015).

Antibody First Published in: Stephen Hurst et al. New IL-17 family members promote Th1 or Th2 responses in the lung: in vivo function of the novel cytokine IL-25. J Immunol. 2002 Jul 1;169(1):443-53.

[PMID:12077275](#)

Note on publication: Describe the use of this antibody for FACS analysis to demonstrate the function of

the novel cytokine IL-25 in the lung.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.