

Rat anti-Mouse CD45R Monoclonal Antibody | anti-CD45R antibody

Anti-CD45R [RA3-6B2]

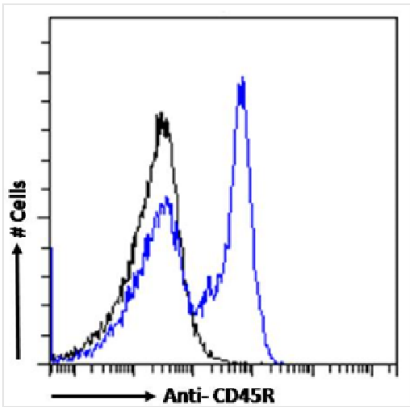
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72106	Rat	Mouse	Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

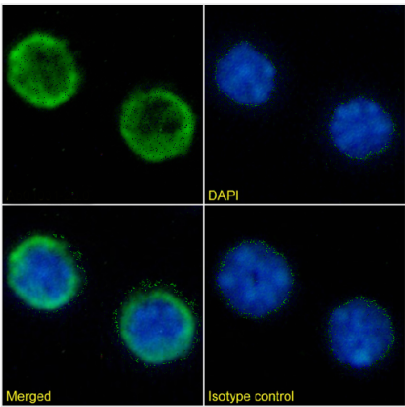
CD45R; Monoclonal Antibody; Anti-CD45R [RA3-6B2]; B220; CD45; CD45 antigen; Cluster designation 45R; L-CA; Leukocyte common antigen; Ly-5; lymphocyte antigen 5; lymphocyte common antigen; Lyl-4; protein tyrosine phosphatase; receptor type; C; c polypeptide; Receptor-type tyrosine-protein phosphatase C; T200; T200 glycoprotein; T200 leukocyte common antigen; anti-CD45R antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG2a, kappa
Clone Number	RA3-6B2
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.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD45R antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
PMID	12077275
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-CD45R antibody RA3-6B2 . Mouse splenocytes were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG1 version of RA3-6B2 at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-mouse IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of mouse splenocytes using anti-CD45R antibody RA3-6B2
Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes immobilized on Shi-fix cover-slips and stained with the chimeric rabbit IgG version of RA3-6B2 at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD45R antibody	Recombinant monoclonal antibody to CD45R. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma RA3-6B2. This antibody was raised in Lou-M rats using a popliteal lymph node immunisation and fusion protocol as described by Martiniello et al (1994)
Product Categories/Family for anti-CD45R antibody	immunology; oncology; immuno-oncology; CD markers
References	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. 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.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P06800
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Gene Name	Ptprc
UniProt Synonym Gene Names	Ly-5
UniProt Entry Name	PTPRC_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.