

Rat CD45 Monoclonal Antibody | anti-CD45 antibody

RAT ANTI MOUSE CD45

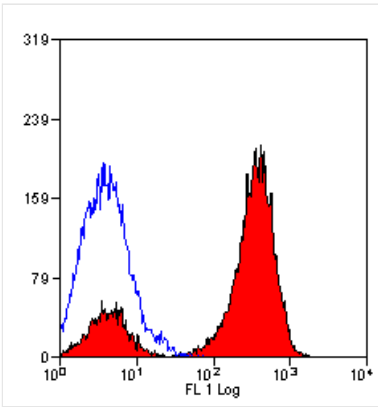
CATALOG #	HOST	APPLICATIONS
AAA12063	Rat	Immunohistochemistry, Flow Cytometry, Functional Assay, Immunofluorescence, Immunoprecipitation

PRODUCT SYNONYMS

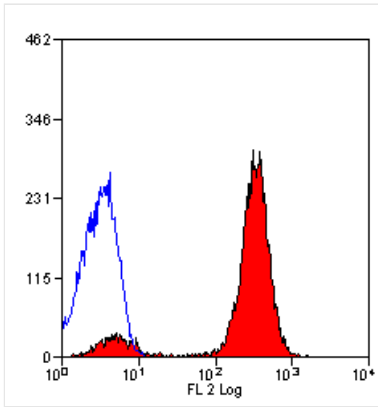
CD45; Monoclonal Antibody; RAT ANTI MOUSE CD45; anti-CD45 antibody

PRODUCT SPECIFICATIONS

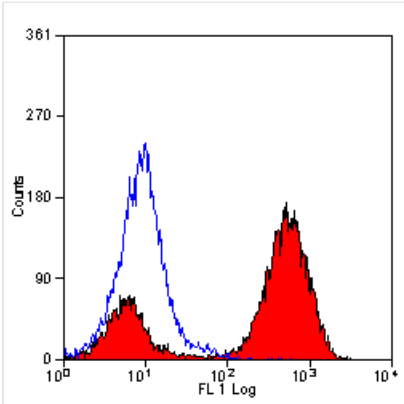
Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	YW62.3
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	1,152
Applicable Applications for anti-CD45 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IP (Immunoprecipitation)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Flow Cytometry: Minimum Dilution: 1/100; Maximum Dilution: 1/200
Perservative Stabilisers	0.09% Sodium Azide Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Mouse
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



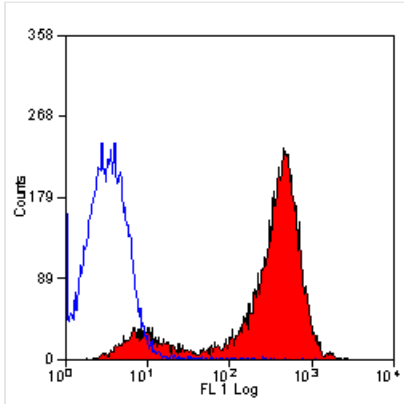
Application Data
Staining of mouse spleen cells with Rat anti Mouse CD45 (Ly-5)



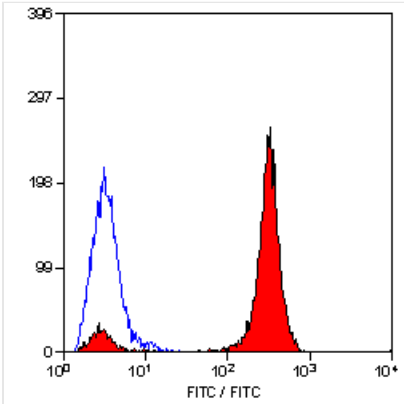
Application Data
Staining of mouse spleen cells with Rat anti Mouse CD45 (Ly-5):RPE



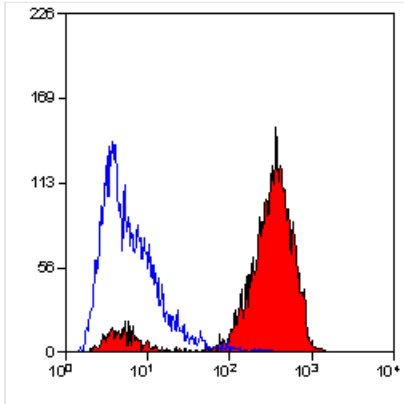
Application Data
Staining of mouse spleen with Rat anti Mouse CD45



Application Data
Staining of mouse spleen with Rat anti Mouse CD45: RPE



Application Data
Staining of mouse splenocytes with Rat anti Mouse CD45: FITC



Application Data
Staining of mouse peripheral blood lymphocytes with Rat anti Mouse CD45 (Ly-5):Alexa Fluor 647

ADDITIONAL INFORMATION

Related Product Information for anti-CD45 antibody	Rat anti Mouse CD45 antibody, clone YW62.3 recognizes the murine CD45 cell surface antigen, a single pass type1 transmembrane glycoprotein also known as protein tyrosine phosphatase receptor type C (PTPRC) and originally termed Leucocyte Common Antigen (LCA). CD45 is a 180-220kDa glycoprotein expressed by all leucocytes. CD45 is encoded by 3 alleles in mice, differentially expressed by various inbred strains. The Ly5 gene was originally described with the gene product LY5.1 expressed in C57bl/6 and Ly5.2 expressed in SJL strains (Komura et al. 1975), this was subsequently expanded to include a third allele encoding Ly5.3 (Shen et al. 1986). Further, in 1987 a reversal of nomenclature was instigated resulting in the allele in C57bl/6 becoming Ly5b encoding Ly5.2 and the allele in SJL mice becoming Ly5a encoding Ly5.1 (Morse et al. 1987). Further changes were made in 1992 with Ly5.1 becoming CD45.1 (SJL) and Ly5.2 becoming CD45.2 (C57bl/6). Finally, following work demonstrating homology between the CD45 antigen and a receptor linked protein tyrosine phosphatase the CD45a gene was renamed Ptpca and CD45b renamed Ptpcb (Charbonneau et al. 1988; Zebedee et al. 1991). A number of different isoforms isoforms of CD45 are expressed on murine leucocytes depending on the pattern of altenative splicing of 3 exons termed A, B and C encoding regions of ~ 50 amino acids located at the N terminal region of the extracellular portion of CD45. The restricted proteins are termed CD45R with a designation depending on the expressed codon product. (Birkeland et al. 1989). Rat anti mouse CD45 antibody, clone YW62.3 is reactive with all isoforms of murine CD45. N.B. Some reactivity with human tissue has been observed.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	341942176
NCBI GeneID	19264
UniProt Accession #	P06800; Q61812; Q61813; Q61814; Q61815; Q78EF1; E9QLT5
Molecular Weight	130,622 Da
NCBI Official Full Name	Receptor-type tyrosine-protein phosphatase C
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, C
NCBI Official Symbol	Ptprc
NCBI Official Synonym Symbols	loc; B220; Cd45; L-CA; Ly-5; T200; CD45R; Lyt-4
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C; leukocyte common antigen; lymphocyte antigen 5; lymphocyte common antigen
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Gene Name	Ptprc
UniProt Synonym Gene Names	Ly-5; L-CA; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd45-antibody-clone-yw62-3-immunohistochemistry-flow-cytometry-immunofluorescence-immunoprecipitation-elisa/12063>