

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

Rat Anti Mouse CD45R: Amethyst Orange

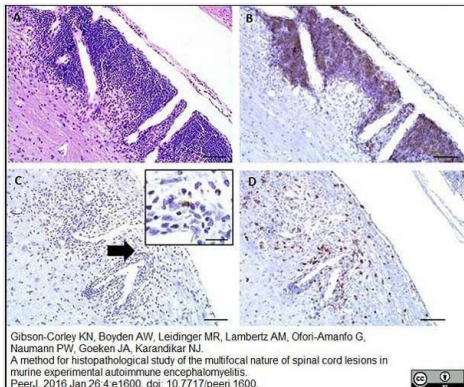
CATALOG # AAA12271	HOST Rat	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD45R; Monoclonal Antibody; Rat Anti Mouse CD45R: Amethyst Orange; CD45R antibody; RA3-6B2; anti-CD45R antibody

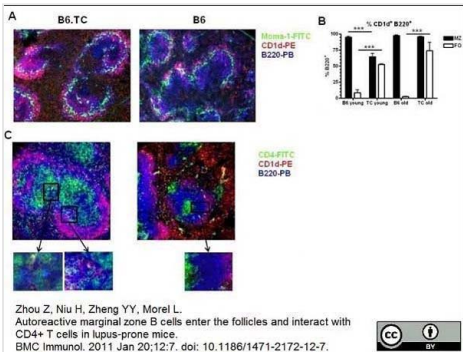
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	RA3-6B2
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
Form/Format	Purified IgG conjugated to Amethyst Orange - Liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	1293
Applicable Applications for anti-CD45R antibody	FCM/FACS (Flow Cytometry)
Application Notes	FC/FACS: Min. Dilution: Neat Use 10ul of the suggested working dilution to label 106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).
Immunogen	Murine leukemia-induced pre-B tumor cells (RAW112)
Buffer Solution	Phosphate Buffered Saline
Preservative Stabilizers	0.09% Sodium Azide (NaN3) 1% Bovine Serum Albumin
Fusion Partners	Spleen cells from immunized Lewis rats were fused with cells of the rat S194/5 XX0.BU-1 myeloma cell line.
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. This product contains a precipitate we recommend microcentrifugation before use.



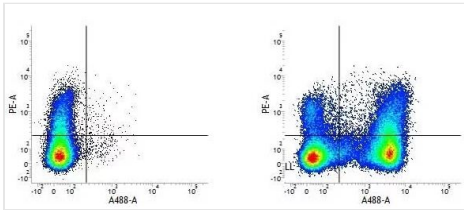
Application Data

Rat anti MouseCD45R antibody, clone RA3-6B2 used for the demonstration of B cells in murine spinal column by immunohistochemistry on formalin fixed, paraffin embedded tissue sections. Image caption: Representative images of key immunohistochemical markers run on a longitudinally sectioned, decalcified spinal column from an EAE mouse with a clinical EAE score of 4. (A) HE, (B) B220 immunohistochemistry for B cells, (C) F4/80 immunohistochemistry for macrophages (arrow indicates area highlighted in inset, inset bar = 20 μm), (D) CD3 immunohistochemistry for T cells. Bars = 200 μm. From: Gibson-Corley KN, Boyden AW, Leidinger MR, Lambertz AM, Ofori-Amanfo G, Naumann PW, Goeken JA, Karandikar NJ. A method for histopathological study of the multifocal nature of spinal cord lesions in murine experimental autoimmune encephalomyelitis. PeerJ. 2016 Jan 26;4:e1600. doi: 10.7717/peerj.1600.



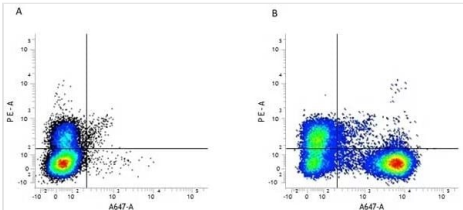
Application Data

Rat anti Mouse CD45R antibody, clone RA3-6B2 used for the identification of marginal zone B cells in mouse spleen by immunofluorescence on cryostat sections. Image caption: Intrafollicular location of MZB cells in B6.TC spleens. A. Representative spleen sections from 3-month-old B6.TC (left) and B6 (right) mice stained with Moma-1-FITC, CD1d-PE and B220-PB. The B220+ CD1d+ MZB cells show as bright pink while the other B cells show as blue. The ring of Moma-1+ metallophilic macrophages delineates the MZ inner edge. B. Percentage of CD1d+ B220+ B cells relative to total B220+ B cells outside (MZ) and inside (FO) the Moma-1+ ring in 3-month-old B6 and B6.TC mice. The data show means and standard errors of the mean (SEM) calculated of 4 MZ and FO areas for each mouse. ***: p < 0.001 for t tests. C. Representative spleen sections from 10-month-old B6.TC (left) and B6 (right) mice stained with CD4-FITC, CD1d-PE and B220-PB. Boxed areas show multiple contacts between green B6.TC CD4+ T cells and pink MZB cells, but not in the B6 spleen. Original magnification: 200X. From: Zhou Z, Niu H, Zheng YY, Morel L. Autoreactive marginal zone B cells enter the follicles and interact with CD4+ T cells in lupus-prone mice. BMC Immunol. 2011 Jan 20;12:7. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



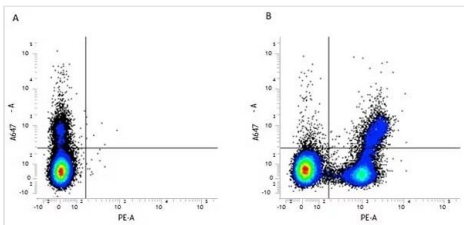
Application Data

Figure A. RPE conjugated Rat anti Mouse CD36 and Alexa488 conjugated Rat IgG2a isotype control. Figure B. RPE conjugated Rat anti Mouse CD36 and Alexa488 conjugated Rat anti Mouse CD45R. All experiments were performed on mouse splenocytes in the presence of murine SeroBlock.



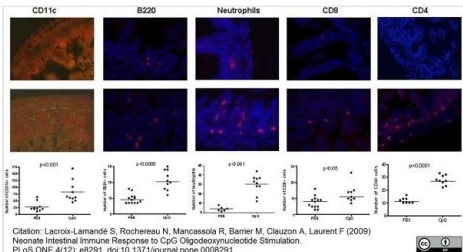
Application Data

Figure A. RPE conjugated mouse anti mouse CD28 and Alexa647 conjugated Rat IgG2a isotype control. Figure B. RPE conjugated mouse anti mouse CD28 and Alexa647 conjugated rat anti mouse CD45. All experiments performed on murine splenocytes in the presence of murine SeroBlock.



Application Data

Figure A. Alexa647 conjugated hamster anti mouse CD79b and RPE conjugated Rat IgG2a isotype control. Figure B. Alexa647 conjugated hamster anti mouse CD79b and RPE conjugated rat anti mouse CD45R. All experiments performed on murine bone marrow in the presence of murine SeroBlock.



Application Data

Rat anti Mouse CD45R antibody, clone RA3-6B2 used for the enumeration of B cells in the intestinal mucosa by immunofluorescence. Image caption: Recruitment of inflammatory cells in the intestine of neonates after CpG-ODN treatment. Eight-day-old neonatal mice received 20 μg/g of CpG-ODN orally. Twenty-four hours after treatment, ilea were removed to analyze the recruitment of inflammatory cells by immunohistochemistry. Six to ten neonates from different litters (5 sections for each animal) per group were analyzed. Data were analyzed by non-parametric Mann-Whitney test. From: Lacroix-Lamandé S, Rochereau N, Mancassola R, Barrier M, Clauzon A, Laurent F (2009) Neonate Intestinal Immune Response to CpG Oligodeoxynucleotide Stimulation. PLoS ONE 4(12): e8291. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.

ADDITIONAL INFORMATION

Related Product Information for anti-CD45R antibody	Rat anti Mouse CD45R antibody, clone RA3-6B2 recognizes murine CD45R, a form of the CD45 antigen expressed by B cells and lytically active subsets of NK cells and non-MHC restricted CTL's. Rat anti Mouse CD45R antibody, clone RA3-6B2 immunoprecipitates the high molecular weight form of CD45 (220 kDa). Rat anti Mouse CD45R antibody, clone RA3-6B2 is suitable for plp fixed paraffin embedded tissues (Whiteland et al.1995).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1375383927
UniProt Accession #	P06800
NCBI Official Full Name	Receptor-type tyrosine-protein phosphatase C
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/monoclonal/cd45r-antibody-clone-ra3-6b2-flow-cytometry-elisa/12271>