

Mouse anti-Human CD45RA Monoclonal Antibody | anti-CD45RA antibody

Mouse Anti Human CD45RA: Amethyst Orange

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12272	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD45RA; Monoclonal Antibody; Mouse Anti Human CD45RA: Amethyst Orange; CD45RA antibody; F8-11-13; anti-CD45RA antibody

PRODUCT SPECIFICATIONS

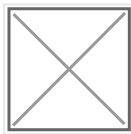
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	F8-11-13
Purity/Purification	Purified IgG prepared by affinity chromatography on protein A from tissue culture supernatant.
Form/Format	Purified IgG conjugated to Amethyst Orange - Liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	1306
Applicable Applications for anti-CD45RA antibody	FCM/FACS (Flow Cytometry)
Application Notes	FC/FACS: Min. Dilution: Neat, Max. Dilution: 1/10 Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
Immunogen	Human T lymphocytes
Buffer Solution	Phosphate Buffered Saline
Preservative Stabilizers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Fusion Partners	Spleen cells from immunized BALB/c mouse were fused with cells of the NS-1 mouse 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.

IMAGES



Application Data

AlexaFluor 700 conjugated Mouse anti Human CD45RA antibody used for the phenotypic characterization of CD8 expressing T cells by flow cytometry. Image caption: CD8 T cell subpopulation distribution in the blood and endocervix. (A) A diagram of Sallusto and Lanzavecchia's classification scheme of CD8 T cells based on CD45RA and CCR7 expression and relative perforin expression of the different subpopulation, (B) distribution of the different CD8 T cell subpopulations in a representative C. trachomatis-negative and C. trachomatis-positive women (C-D) Distribution of different CD8 T cells in the blood (C), and in the endocervix (D) of 16 women (n=16). Using flow cytometric analyses, CD8 T cells were identified in a population of cells from PBMC and endocervical cells by gating for CD3+CD8+ cells. CD8 T cells were further characterized based on CD45RA and CCR7 expression. Naïve cells are CD45RA+ CCR7+, central memory (TCM) cells are CD45RA-CCR7+, effector memory (TEM) cells are CD45RA- CCR7-, and terminally differentiated effector memory (TEMRA) cells are CD45RA+ CCR7-. The majority of CD8 T cells in the endocervix are TEM CD8 subtype. From: Ibana JA, Myers L, Porretta C, Lewis M, Taylor SN, Martin DH, Quayle AJ. The major CD8 T cell effector memory subset in the normal and Chlamydia trachomatis-infected human endocervix is low in perforin. BMC Immunol. 2012 Dec 7;13:66.



Application Data

Staining of formalin fixed, paraffin embedded human tonsil with Mouse anti Human CD45RA



Application Data

Figure A. RPE conjugated mouse anti human CD45RO and A647 conjugated mouse IgG1 isotype control . Figure B. RPE conjugated mouse anti human CD45RO and A647 conjugated mouse anti Human CD45RA . All experiments performed on red cell lysed human blood gated on lymphocytes. Data acquired on the ZE5 cell analyzer.



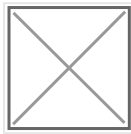
Application Data

Figure A. RPE conjugated mouse anti human CD45RO and PE-A647 conjugated mouse IgG1 isotype control . Figure B. RPE conjugated mouse anti human CD45RO and PE-A647 conjugated mouse anti Human CD45RA . All experiments performed on red cell lysed human blood gated on lymphocytes. Data acquired on the ZE5 cell analyzer.



Application Data

Figure A. PE-Cy5 conjugated mouse anti human CD45RO and FITC conjugated Mouse IgG1 isotype control . Figure B. PE-Cy5 conjugated mouse anti human CD45RO and FITC conjugated mouse anti human CD45RA . All experiments performed on red cell lysed human peripheral blood gated on lymphocytes in the presence of Human SeroBlock



Application Data

Figure A. PE conjugated Mouse anti Human CD45RO and Amethyst Orange conjugated Mouse IgG1 isotype control . Figure B. PE conjugated Mouse anti Human CD3 and Amethyst Orange conjugated Mouse anti Human CD45RA . All experiments performed on human blood gated on live single lymphocytes, in the presence of 10% human serum. Data acquired on the ZE5 Cell Analyzer

ADDITIONAL INFORMATION

Related Product Information for anti-CD45RA antibody	Mouse anti Human CD45RA antibody, clone F8-11-13 recognizes the human CD45RA cell surface antigen. CD45 is a complex molecule existing in a number of isoforms. Antibodies recognizing a common epitope on all of these isoforms are termed CD45 whilst those recognizing only individual isoforms are termed CD45RA or CD45RO etc. Mouse anti Human CD45RA antibody, clone F8-11-13 reacts with the high molecular weight form of the leucocyte common antigen (LCA) expressed by B lymphocytes and a subset of T lymphocytes. Mouse anti Human CD45RA antibody, clone F8-11-13 is routinely tested in flow cytometry on human peripheral blood lymphocytes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	392307007
NCBI GeneID	5788
NCBI Accession #	NP_002829.3
NCBI GenBank Nucleotide #	NP_002829.3

UniProt Accession #	P08575
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase C isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase receptor type C
NCBI Official Symbol	PTPRC
NCBI Official Synonym Symbols	LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Gene Name	PTPRC
UniProt Synonym Gene Names	CD45; L-CA
UniProt Entry Name	PTPRC_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd45ra-antibody-clone-f8-11-13-flow-cytometry-elisa/12272>