Datasheet for ABIN1112166

anti-CD45RC antibody (FITC)

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Overview

Quantity:	100 tests
Target:	CD45RC
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45RC antibody is conjugated to FITC
Application:	Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Clone:	RP1-12
Isotype:	IgG1
Characteristics:	Mouse monoclonal Anti-Human CD45RC FITC, is recommended for use in flow cytometry.

Target Details

Target:	CD45RC
Alternative Name:	CD45RC (CD45RC Products)
Background:	This antibody reacts with CD45RC on pre-B lymphocytes,B cells,CD8+ T suppressor/cytotoxic cells,and a subset of CD4+ T helper (Th)lymphocytes. It weakly reacts with thymocytes.4 CD45RC is a high-molecular-weight isoform of CD45 (Leukocyte Common Antigen),its level of expression distinguishes subpopulations of CD4 +T cells with Th1-like and Th2-like effector functions. Levels of expression of CD45RC have also been reported to distinguish resting from

Target Details

activated T cells at various stages of maturation. CD45 is a member of the Protein Tyrosine Phosphatase (PTP) family: Its intracellular (COOH-terminal)region contains two PTP catalytic domains,and the extracellular region is highly variable due to alternative splicing of exons 4,5,and 6 (designated A,B,and C,respectively),plus differing levels of glycosylation. The CD45 isoforms detected in the rat are cell type-,maturation-,and activation state-specific. The CD45 isoforms play complex roles in T-cell and B-cell antigen receptor signal transduction.

Application Details

Application Notes:	It is recommended for use in flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 20 µl/10^6 cells.
Sample Preparation:	1. Transfer 100 µl of anticoagulated (EDTA) blood to a 12 x 75 mm polystyrene test tube (10^6 cells). 2. Add 20 µl of CD45RC FITC and mix gently with a vortex mixer. The 20 µl is a guideline only, the optimal volume should be determined by the individual laboratory. 3. The recommended negative control is a non-reactive FITC-conjugated antibody of the same isotype 4. Incubate in the dark at room temperature at 4°C for 15 minutes or at room temperature (20-25 °C) for 15 minutes. 5. Add 1,5 ml of Lysing Solution to each sample and mix gently with a vortex mixer. Incubate for 10 minutes at room temperature in the dark. 6. Centrifuge at 1000 x g for 5 minutes. Gently aspirate the supernatant and discard it leaving approximately 50 µl of fluid. 7. Add 2 ml 0.01 mol/l PBS (It betters that it containing 2% bovine serum albumin) and resuspend the cells by using a vortex mixer. 8. Centrifuge at 1000 x g for 5 minutes. Gently aspirate the supernatant and discard it leaving approximately 50 µl of fluid. 9. Resuspend pellet in an appropriate fluid for flow cytometry, e.g. 0.5 ml PBS. The PBS should contain 1% paraformaldehyde (fixative) if samples are not analysed the same day. 10. Analyse on a flow cytometer or store at 2-8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The conjugate is provided in liquid form in buffer containing Stabilizing Solution, PBS pH 7,4.
Preservative:	Sodium azide
Precaution of Use:	1. The device is not intended for clinical use including diagnosis, prognosis, and monitoring of a

Handling

	disease state, and it must not be used in conjunction with patient records or treatment. 2. This product contains Sodium azide (NaN3), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, Sodium azide may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing. 3. As with any product derived from biological sources, proper handling procedures should be used.
Storage:	4 °C