Datasheet for ABIN1112183

anti-CD53 antibody (APC)

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Overview

Quantity:	100 tests
Target:	CD53
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD53 antibody is conjugated to APC
Application:	Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Clone:	HI29
Isotype:	IgG1
Characteristics:	Monoclonal Mouse Anti-Human CD53.The conjugate is provided in liquid form in buffer containing 1% bovine serum albumin (BSA),(Lote: 113K1364/SIGMA) and 0,09% NaN3, pH 7.2.

Target Details

Target:	CD53
Alternative Name:	CD53 (CD53 Products)
Background:	The antigen, 32-40kDa, is a single chain glycoprotein on most leucocytes. There is no cross-reactivity with erythrocytes or platelets. The antibody recognises a broad span of leucocytes of both normal and neoplastic plasma cells.

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.
Comment:	Allophycocyanin (Febico, Far East Bio-Tech Co.).
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 CD53 APC 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 APC-conjugated antibody of the same isotype. 4. Incubate in the dark at room temperature at 4°C for 30 minutes or at room temperature (20-25 °C) for 15 minutes. 5. Add 100 µl 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. 0.3 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

Preservative:	Sodium azide
Precaution of Use:	1. The device is not intended for clinical use including diagnosis, prognosis, and monitoring of a 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

Publications

Product cited in:	Kim, Yoon, Kim, Yook, Kim, Kim, Lee, Paik: "LPS-induced CD53 expression: a protection mechanism against oxidative and radiation stress." in: **Molecules and cells**, Vol. 17, Issue 1, pp. 125-31, (2004) (PubMed). Yunta, Rodríguez-Barbero, Arévalo, López-Novoa, Lazo: "Induction of DNA synthesis by ligation of the CD53 tetraspanin antigen in primary cultures of mesangial cells." in: **Kidney international**, Vol. 63, Issue 2, pp. 534-42, (2003) (PubMed).