Human CD53 APC-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 425514

Catalog Number: FAB4624A

100 Tests

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD53. Stains human CD53 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG_{2A} Clone # 425514
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CD53 Met1-Leu219 Accession # P19397
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

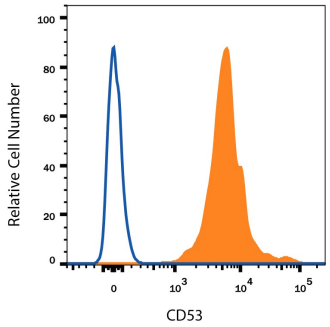
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CD53 in Human Peripheral Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD53 APC-conjugated Monoclonal Antibody (Catalog # FAB4624A, filled histogram) or isotype control antibody (Catalog # IC003A, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD53, also known as TSPAN25, is a 35 kDa-40 kDa cell surface and endosomal membrane glycoprotein that belongs to the 4 TM tetraspanin superfamily of molecules. CD53 is widely expressed on hematopoietic cells, including eosinophils, neutrophils, mast cells, $CD16^+$ proinflammatory monocytes, NK cells T cells, macrophages, splenic B cells and immature dendritic cells. Ligation of CD53 promotes cell proliferation and survival, as well as homotypic cell-cell adhesion. On the cell membrane, CD53 associates with other tetraspanins, MHC class II molecules, and α3 and α4 integrins. Human CD53 shares 71% aa sequence identity with mouse and CD53 in the extracellular domains.

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