**DESCRIPTION**

**Species Reactivity**  Human

**Specificity**  Detects human CD53. Stains human CD53 transfectants but not irrelevant transfectants.

**Source**  Monoclonal Mouse IgG2A 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/10⁶ 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.