# Human CD53 Antibody

Monoclonal Mouse $IgG_{2A}$ Clone # 425514

Catalog Number: MAB4624

## 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<br>Met1-Leu219<br>Accession # P19397 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

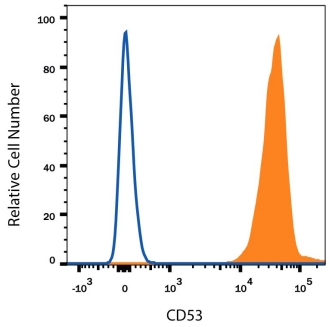
## APPLICATIONS

**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** | 0.25 µg/$10^6$ cells | See Below |
| **CyTOF-ready** | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

## DATA

**Flow Cytometry**




**Detection of CD53 in Human Lymphocytes by Flow Cytometry.** Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD53 Monoclonal Antibody (Catalog # MAB4624, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). View our protocol for Staining Membrane-associated Proteins.

## PREPARATION AND STORAGE

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|---|---|
| **Reconstitution** | Reconstitute at 0.5 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

CD53, also known as TSPAN25, is a 35 kDa-40 kDa cell surface and endosomal membrane glycoprotein in the tetraspanin superfamily. CD53 is widely expressed on hematopoietic cells. Ligation of CD53 promotes cell activation and survival as well as homotypic cell-cell adhesion. CD53 associates with other tetraspanins, MHC class I and II molecules, and integrin α4β1. Human CD53 shares 81%-83% aa sequence identity with mouse and rat CD53.



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