

Datasheet for ABIN6941219

anti-CD53 antibody[Go to Product page](#)**1** Image

Overview

| | |
|--------------|--|
| Quantity: | 100 µg |
| Target: | CD53 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This CD53 antibody is un-conjugated |
| Application: | Flow Cytometry (FACS), Immunofluorescence (IF), Functional Studies (Func), Immunomicroscopy (IM) |

Product Details

| | |
|--------------|---|
| Immunogen: | Stimulated human leukocytes |
| Clone: | 161-2 |
| Isotype: | IgG2a kappa |
| Specificity: | Recognizes a protein of 33-55 kDa, identified as CD53 (Workshop VI, Code N-L033). It is expressed on monocytes and macrophages, dendritic cells, osteoblasts and osteoclasts, and on T and B cells from every stage of differentiation but is absent from platelets, red blood cells. CD53 appears to be the marker with widest reactivity as well as the marker with the strictest specificity to hematopoietic cells. CD53 is a type III membrane with both termini in the cytoplasm and two loops in the extracellular environment. This molecule, in common with other members of tetraspan family, is involved in cellular activation as part of a signal transduction complex involving other membrane glycoproteins. CD53 crosslinking induces calcium flux on human monocyte and B cells. Cross-linking of CD53 promotes activation of resting human B- |

Product Details

lymphocytes. This MAb recognizes CD53 transfected cells and partially inhibits T-cell proliferation induced by CD3 antibody (clone: UCHT1).

No Cross-Reactivity: Baboon, Horse (Equine)

Purification: Purified by Protein A/G

Target Details

Target: CD53

Alternative Name: CD53 ([CD53 Products](#))

Molecular Weight: 33-55kDa

Gene ID: 963

UniProt: [P19397](#)

Application Details

Application Notes: Positive Control: Daudi, Raji, IM9, U266, YT, HUT-78, HUT-102, Jurkat, HL-60, THP-1, KG1a, human leukocytes. Human tonsil and lymph node.
Known Application: Functional Studies (Order Ab without Azide), Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

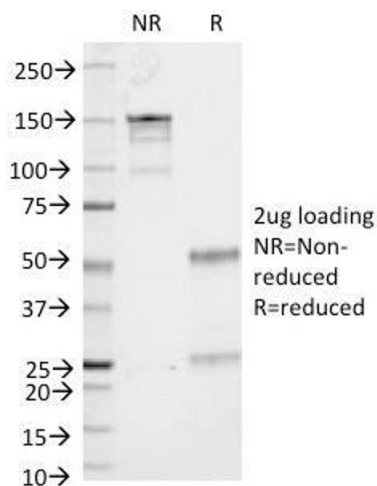
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified CD53 Mouse Monoclonal Antibody (161-2). Confirmation of Purity and Integrity of Antibody.