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# Anti-CD53-AcalephFluor647-labled

Catalog # AP101904

## Product Information

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| **Application** | FC, IF/IC |
| **Primary Accession** | P19397 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Calculated MW** | 24341 |

## Additional Information

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| **Gene ID** | 963 |
| **Other Names** | MOX44; TSPAN25; Leukocyte surface antigen CD53; Cell surface glycoprotein CD53; Tetraspanin-25; Tspan-25; CD antigen CD53 |
| **Target/Specificity** | Recognizes human CD53 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG2b. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | CD53 |
| **Synonyms** | MOX44, TSPAN25 |
| **Function** | Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling (PubMed:28487417). Participates thereby in diverse biological functions such as cell signal transduction, adhesion, migration and protein trafficking (PubMed:32974937, PubMed:35767951). Plays a role in the activation of monocytes and B-cells (PubMed:8335905). Acts as an essential regulator of B-cell development by promoting interleukin-7 receptor/IL7R signaling (By similarity). Also promotes, in B-cells, the BCR signaling by recruiting PKC to the plasma membrane in order to phosphorylate its substrates (PubMed:28487417). Plays an essential role in B- and T-cells homing to lymph nodes by stabilizing L-selectin/SELL cell surface expression (By similarity). Also mediates metabolic and inflammatory functions in hepatocytes and adipose tissue by promoting TNF and LPS signaling independent of the immune compartment (By similarity). |
| **Cellular Location** | Cell membrane. Cell junction {ECO:0000250\|UniProtKB:Q61451}. Membrane; |

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| | Multi-pass membrane protein. Synapse. Note=Concentrates in localized microdomains along the plasma membrane at the contact sites between cells of fused myotubes. {ECO:0000250\|UniProtKB:Q61451} |
| **Tissue Location** | B-cells, monocytes, macrophages, neutrophils, single (CD4 or CD8) positive thymocytes and peripheral T-cells |

## Background

AcalephFluor647-labled mouse monoclonal antibody to CD53

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.