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Anti-CD53 Antibody

Catalog # AP95519

Product Information

Application	FC, IF/IC
Primary Accession	P19397
Reactivity	Human
Host	Mouse
Clonality	Monoclonal (clone: 63.5A3)
Calculated MW	24341

Additional Information

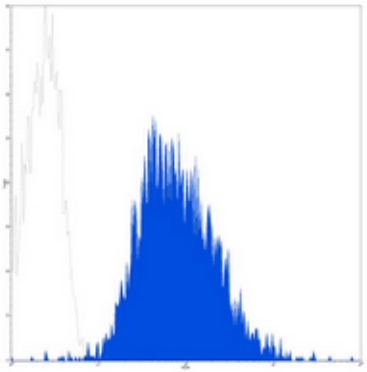
Gene ID	963
Other Names	MOX44; TSPAN25; Leukocyte surface antigen CD53; Cell surface glycoprotein CD53; Tetraspanin-25; Tspan-25; CD antigen CD53
Target/Specificity	Native purified human CD53.
Dilution	FC~~FC (1/500 - 1/2000) IF/IC~~N/A
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

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; 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

Images



Flow cytometric analysis of human peripheral blood monocytes using Anti-CD53 Antibody, followed by anti-mouse IgG PE.

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