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36-1949: Monoclonal Antibody to CD53 (TSPAN25)(Clone : 63-5A3)

Clonality :	Monoclonal
Clone Name :	63-5A3
Application :	Functional Assay,FACS,IF
Reactivity :	Human
Gene :	CD53
Gene ID :	963
Uniprot ID :	P19397
Format :	Purified
Alternative Name :	CD53,MOX44,TSPAN25
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Human Sezary cells

Description

Recognizes a protein of 33-55kDa, identified as CD53 (Workshop V; Code CD53.1). CD53 is expressed on monocytes, and macrophages, granulocytes, dendritic cells, osteoblasts and osteoclasts, NK cells, and on T- and B-cells from every stage of differentiation but is absent from platelets, erythrocytes, and non-haemopoietic cells. CD53 is a member of a family of tetraspan transmembrane proteins, including CD9, CD37, CD63, CD81, and CD82. It associates with integrins, MHC class II molecules, and a tyrosine phosphatase and plays a role in cellular activation as part of a signal transduction complex involving other membrane glycoproteins. Defects of CD53 expression on neutrophils appear to be related with recurrent infectious diseases. Cross-linking CD53 using CD53 antibodies led to cytoplasmic calcium fluxes in B cells, monocytes, and granulocytes and activation of the monocyte oxidative burst.

Product Info

Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Functional Studies (Order Ab without Azide);Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);