

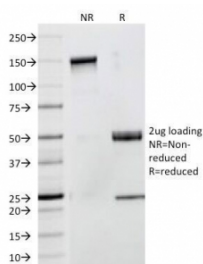
## CD53 Antibody [clone 63-5A3] (V3018)

Catalog No.	Formulation	Size
V3018-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3018-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3018SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

 Citations (4)

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	63-5A3
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P19397
<b>Localization</b>	Cell surface
<b>Applications</b>	Functional Studies (order BSA/sodium Azide-free Format) : Flow Cytometry : 0.5-1ug/10 <sup>6</sup> cells Immunofluorescence : 0.5-1ug/ml
<b>Limitations</b>	This CD53 antibody is available for research use only.



SDS-PAGE Analysis of Purified, BSA-Free CD53 Antibody (clone 63-5A3). Confirmation of Integrity and Purity of the Antibody.

## 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.

## Application Notes

Optimal dilution of the CD53 antibody should be determined by the researcher.

## Immunogen

Human Sezary cells were used as the immunogen for the CD53 antibody.

## Storage

Store the CD53 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).