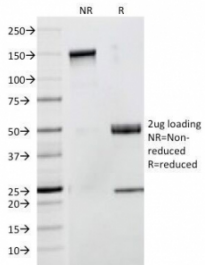
CD53 Antibody [clone 63-5A3] (V3018)

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

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	63-5A3
Purity	Protein G affinity chromatography
UniProt	P19397
Localization	Cell surface
Applications	Functional studies (order BSA/sodium azide-free format) Flow cytometry: 0.5-1ug/10^6 cells Immunofluorescence: 0.5-1ug/ml
Limitations	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).

Copyright © NSJ Bioreagents. All rights reserved.