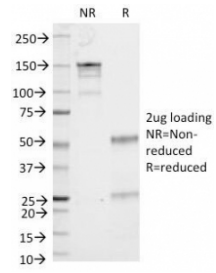
CD53 Antibody [clone 161-2] (V3019)

Catalog No.	Formulation	Size
V3019-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3019-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3019SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (2)

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	161-2
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 161-2). Confirmation of Integrity and Purity of the Antibody.

Description

Recognizes a protein of 33-55kDa, identified as CD53 (Workshop VI; Code N-L033). It is expressed on monocytes and macrophages, dendritic cells, osteoblasts and osteoclasts, and on T and B cells from every stage of differentiation but is absent from platelets, red blood cells. CD53 appears to be the marker with widest reactivity as well as the marker with the strictest specificity to hematopoietic cells. CD53 is a type III membrane with both termini in the cytoplasm and two loops in the extracellular environment. This molecule, in common with other members of tetraspan family, is involved in cellular activation as part of a signal transduction complex involving other membrane glycoproteins. CD53 crosslinking induces calcium flux on human monocyte and B cells. Cross-linking of CD53 promotes activation of resting human B-lymphocytes. This mAb recognizes CD53 transfected cells and partially inhibits T-cell proliferation induced by CD3 antibody (clone: UCHT1).

Application Notes

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

Immunogen

Stimulated human leukocytes 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).

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