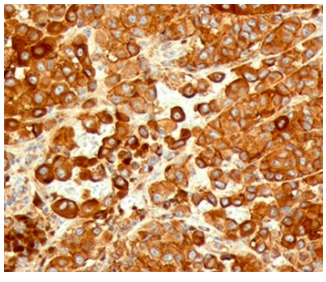
CD63 Antibody / LAMP-3 [clone NKI/C3] (V2070)

Catalog No.	Formulation	Size
V2070-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2070-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2070SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2070IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

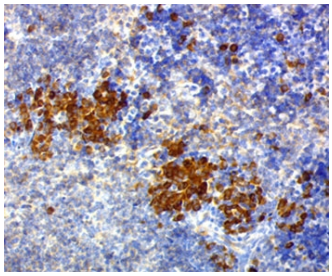
Citations (8)

Bulk quote request

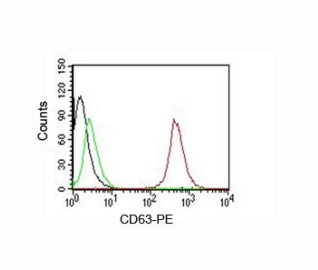
Species Reactivity	Human, Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	NKI/C3
Purity	Protein G purified antibody
Buffer	1X PBS, pH 7.4
Gene ID	967
Localization	Cytoplasmic
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This **CD63 antibody** is available for research use only.



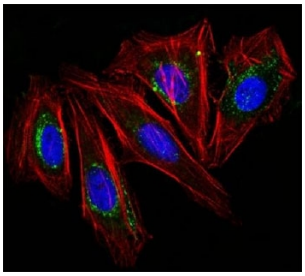
IHC testing of human melanoma stained with CD63 antibody (NKI/C3).



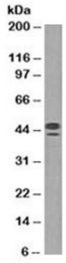
IHC testing of mouse spleen stained with CD63 antibody (NKI/C3).



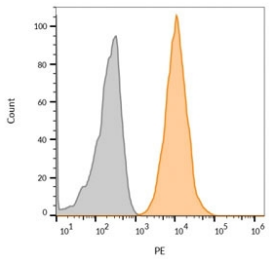
FACS testing of MCF-7 cells: Black=cells alone; Green=isotype control; Red=CD63 antibody PE conjugate



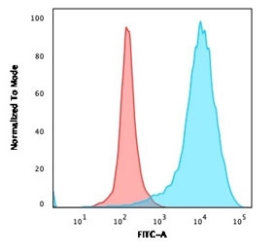
Immunofluorescence testing of HeLa cells with Alexa Fluor 488 conjugated CD63 antibody (green). F-actin filaments are labeled with Dylight 554 phalloidin (red); nuclei stained with DAPI (blue).



Western blot testing of human spleen lysate with CD63 antibody (clone NKI/C3).



Flow cytometry staining of live human MCF7 cells with biotin labeled CD63 antibody (clone NKI/C3) and streptavidin-CF568 (orange). Gray histogram represents unstained cells.



Flow cytometry staining of PFA-fixed human U-87 MG cells with CD63 antibody (clone NKI/C3); Red=isotype control, Blue= CD63 antibody.

Description

The tetraspanins are integral membrane proteins expressed on cell surface and granular membranes of hematopoietic cells and are components of multi-molecular complexes with specific integrins. The tetraspanin CD63 is a lysosomal membrane glycoprotein that translocates to the plasma membrane after platelet activation. It is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T cell and B cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes. CD63 is a member of the TM4 superfamily of leukocyte glycoproteins that includes CD9, CD37 and CD53, which contain four transmembrane regions. CD63 may play a role in phagocytic and intracellular lysosome-phagosome fusion events. Deficiency is associated with Hermansky-Pudlak syndrome and is strongly expressed during the early stages of melanoma progression.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titered up or down for optimal performance.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

The smooth plasma membrane fraction of MeWo cells was used as the immunogen for this CD63 antibody.

Storage

Store the CD63 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

gp55; granulophysin; Lysosomal-associated membrane protein 3 (LAMP-3); Mast cell antigen AD1; melanoma 1 antigen; Melanoma-associated antigen MLA1; Melanoma-associated antigen ME491; MLA1; NGA; Ocular melanoma-associated antigen; OMA81H; PTLGP40; Tetraspanin-30; TSPAN30, CD63 antibody

References (3)

Copyright © NSJ Bioreagents. All rights reserved.