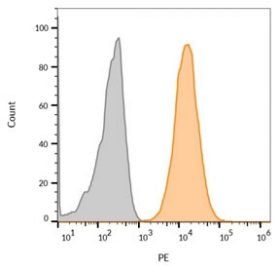
LAMP-3 Antibody / CD63 [clone LAMP3/968] (V3029)

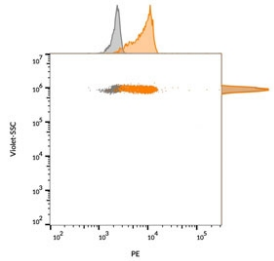
Catalog No.	Formulation	Size
V3029-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3029-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3029SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3029IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

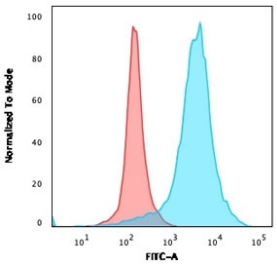
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	LAMP3/968
Purity	Protein G affinity chromatography
UniProt	P08962
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This LAMP-3 antibody is available for research use only.



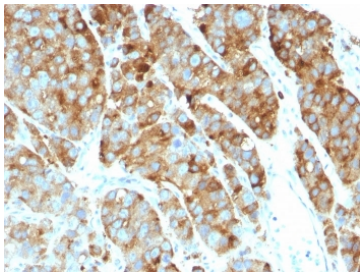
Flow cytometry testing of human MCF7 cells with LAMP-3 antibody (clone LAMP3/968); Gray=unstained, Orange= CF555-labeled LAMP-3 antibody.



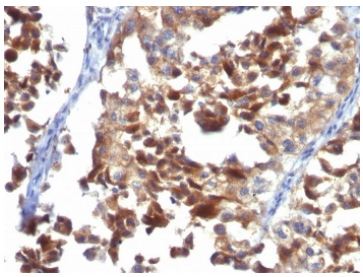
FACS staining of bead-bound exosomes derived from human MCF7 cells: Gray = unstained, Orange = CF555-labeled LAMP-3 antibody.



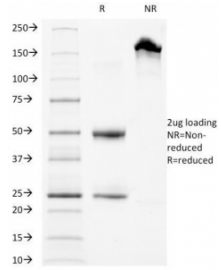
Flow cytometry testing of PFA-fixed human U-87 MG cells with LAMP-3 antibody (clone LAMP3/968); Red=isotype control, Blue= LAMP-3 antibody.



IHC: Formalin-fixed, paraffin-embedded human prostate carcinoma stained with CD63 / LAMP-3 antibody (LAMP3/968).



IHC: Formalin-fixed, paraffin-embedded human melanoma stained with CD63 / LAMP-3 antibody (LAMP3/968).



SDS-PAGE Analysis of Purified, BSA-Free LAMP-3 Antibody (clone LAMP3/968). Confirmation of Integrity and Purity of the Antibody.

Description

This mAb recognizes protein of 26kDa-60kDa, which is identified as CD63/LAMP-3. Its epitope is different from that of mAb LAMP3/529. 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/LAMP-3 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/LAMP-3 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

Optimal dilution of the LAMP-3 antibody should be determined by the researcher.

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 min.
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

Recombinant human full-length protein was used as the immunogen for the CD63 / LAMP-3 antibody.

Storage

Store the LAMP-3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).