abcam

Product datasheet

Anti-CD63 antibody [MX-49.129.5] ab193349

重组

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概述

产品名称	Anti-CD63抗体[MX-49.129.5]
描述	**小鼠单克隆抗体**[MX-49.129.5] to CD63
宿主	Mouse
经测试应用	**适用于:** WB, IHC-P, Flow Cyt, ICC/IF, Flow Cyt (Intra)
种属反应性	**与反应:** Human
免疫原	Full length native protein (purified) corresponding to Human CD63 aa 1 to the C-terminus. Database link: **P08962** **Run BLAST with** **Run BLAST with**
阳性对照	WB: HUVEC and HL-60 cell lysates. IHC-P: Human melanoma tissue. Flow Cyt: SK-MEL-28 and Human peripheral blood mononuclear cells. Flow Cyt (Intra): SK-MEL-28 cells. ICC/IF: SK-MEL-28 cells.
常规说明	This product has switched from a hybridoma to recombinant production method on 9th February 2022. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
纯度	Protein A purified
克隆	单克隆

克隆编号	MX-49.129.5
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab193349于以下的经测试应用**

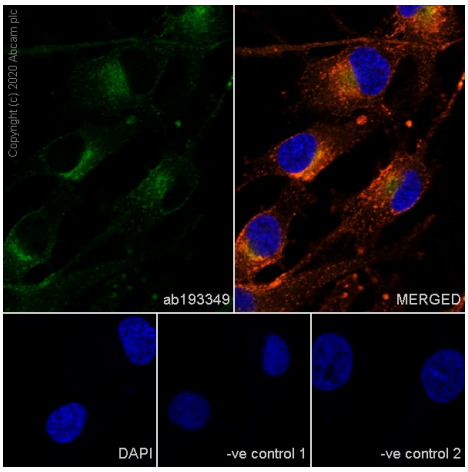
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Predicted molecular weight: 25 kDa.
IHC-P		1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		1/500.
ICC/IF		1/50.
Flow Cyt (Intra)		1/1000.

靶标

功能	This antigen is associated with early stages of melanoma tumor progression. May play a role in growth regulation.
组织特异性	Dysplastic nevi, radial growth phase primary melanomas, hematopoietic cells, tissue macrophages.
序列相似性	Belongs to the tetraspanin (TM4SF) family.
细胞定位	Cell membrane. Lysosome membrane. Late endosome membrane. Also found in Weibel-Palade bodies of endothelial cells. Located in platelet dense granules.

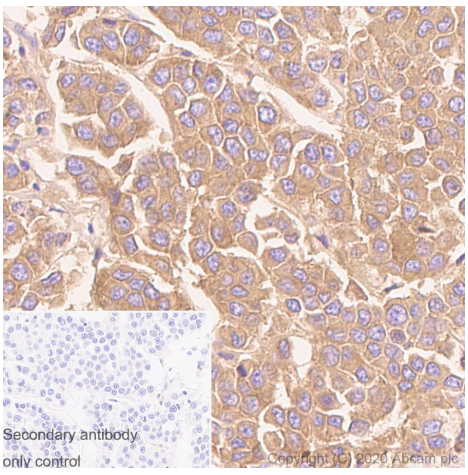
图片



Immunocytochemistry/ Immunofluorescence - Anti-CD63 antibody [MX-49.129.5] (ab193349)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SK-MEL-28 (Human malignant melanoma) cells labelling CD63 with ab193349 at 1/50 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (**ab150113**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining in SK-MEL-28 cell line. The nuclear counter stain is DAPI (blue).

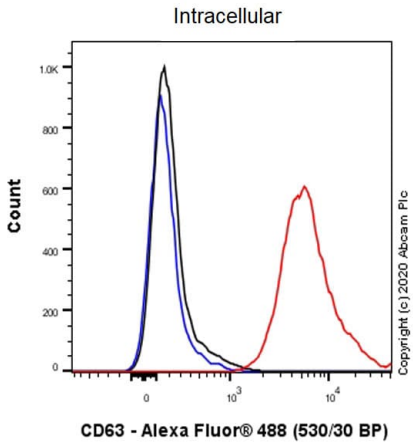
CD63 is also detected with Rabbit monoclonal Anti-CD63 antibody [EPR22458-280] (**ab252919**) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) (**ab150080**) secondary antibody at 1/500 dilution (red).
The negative controls are as follows:
-ve control 1: ab193349 at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) (**ab150080**) secondary antibody at 1/500 dilution.
-ve control 2: Anti-CD63 antibody [EPR22458-280] (**ab252919**) at 1/100 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (Alexa Fluor® 488) (**ab150113**) secondary antibody at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD63 antibody [MX-49.129.5] (ab193349)

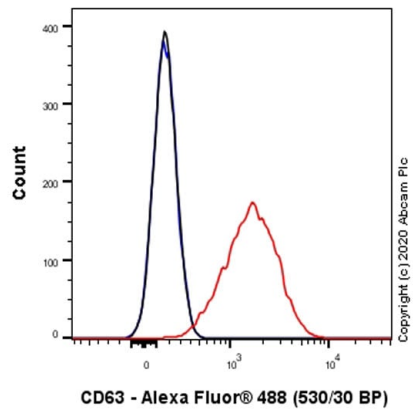
Immunohistochemical analysis of paraffin-embedded human melanoma tissue labelling CD63 with ab193349 at 1/5000 dilution, followed by Goat Anti-Mouse IgG H&L (HRP polymer) (**ab214879**) at the supplied dilution. Cytoplasmic staining on human melanoma is observed. Counter stained with Hematoxylin. Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) was performed for 20 mins, before the section was incubated with ab193349 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Secondary antibody only control: Used PBS instead of primary antibody.



Flow Cytometry (Intracellular) - Anti-CD63 antibody [MX-49.129.5] (ab193349)

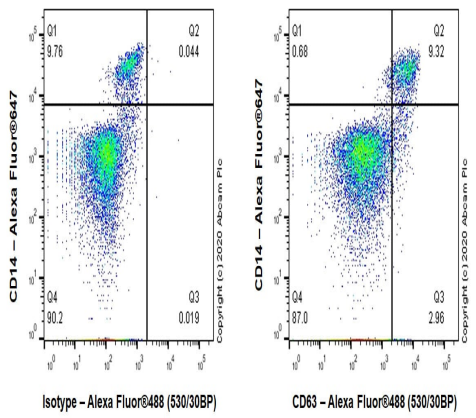
Flow cytometric (intracellular) analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilised SK-MEL-28 (Human malignant melanoma) cell line labelling CD63 with ab193349 at 1/1000 dilution (red) compared with a Mouse monoclonal IgG (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Mouse IgG H&L (Alexa Fluor® 488, **ab150113**) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry - Anti-CD63 antibody [MX-49.129.5] (ab193349)

Flow cytometric analysis of SK-MEL-28 (Human malignant melanoma) cell line labelling CD63 with ab193349 at 1/1000 dilution (red) compared with a Mouse monoclonal IgG (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Mouse IgG H&L (Alexa Fluor® 488, **ab150113**) at 1/2000 dilution was used as the secondary antibody.

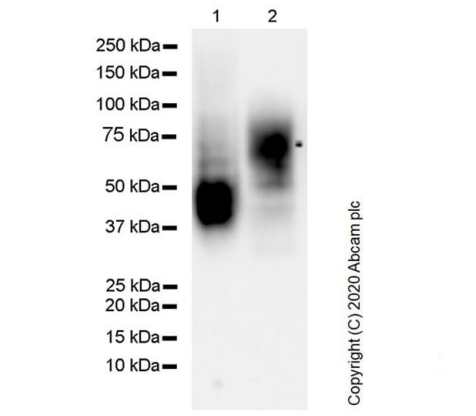
Gated on viable cells.



Flow Cytometry - Anti-CD63 antibody [MX-49.129.5] (ab193349)

Flow cytometric analysis of human peripheral blood mononuclear cells (PBMC) labeling CD63 with ab193349 at 1/1000 dilution (right), compared with a Mouse monoclonal IgG (left). Goat anti mouse IgG (Alexa Fluor® 488, **ab150113**), at 1/2000 dilution was used as the secondary antibody.

Cells were stained with mouse IgG or ab193349, then stained with anti-CD14 conjugated to Alexa Fluor® 647. Gated on viable cells.



Western blot - Anti-CD63 antibody [MX-49.129.5] (ab193349)

All lanes : Anti-CD63 antibody [MX-49.129.5] (ab193349) at 1/1000 dilution

Lane 1 : HUVEC (human umbilical vein endothelial cell), whole cell lysate with NFDM/TBST
Lane 2 : HL-60 (human Acute Promyelocytic Leukemia promyeloblast), whole cell lysate with NFDM/TBST

Lysates/proteins at 40 µg per lane.

Blocking peptides at 5 % per lane.

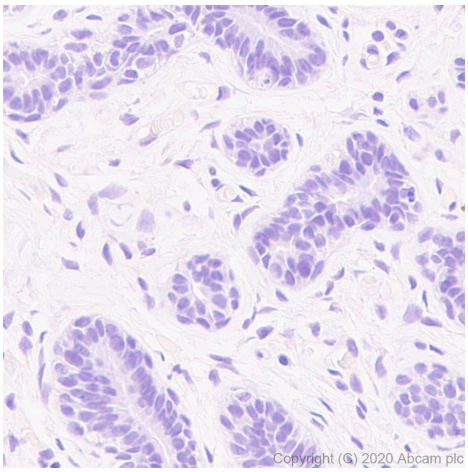
Secondary
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

Predicted band size: 25 kDa
Observed band size: 40-60 kDa

Exposure time: 59 seconds

Diluting buffer and concentration: 5% NFDM/TBST

CD63 can undergo glycosylation as shown in lane 1 and 2 (PMID: 9890706, 28740179).
Samples are non-boiled as boiling may cause protein aggregates.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD63 antibody [MX-49.129.5] (ab193349)

Negative control staining using ab193349. Immunohistochemical analysis of paraffin-embedded human breast tissue labelling CD63 with ab193349 at 1/5000 dilution, followed by Goat Anti-Mouse IgG H&L (HRP polymer) (**ab214879**) at the supplied dilution. No staining on human breast is observed, as expected (PMID: 22957045). Counter stained with Hematoxylin. Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) was performed for 20 mins, before the section was incubated with ab193349 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

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