

Product datasheet

Anti-CD63 antibody [EPR22458-280] ab252919

Recombinant RabMAb

[1 References](#) [7 Images](#)

Overview

Product name	Anti-CD63 antibody [EPR22458-280]
Description	Rabbit monoclonal [EPR22458-280] to CD63
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, Flow Cyt Unsuitable for: IP or WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human melanoma tissue. ICC/IF: SK-MEL-28 cells. Flow cyt: Human PBMCs and SK-MEL-28 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22458-280

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab252919 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/1000.
Flow Cyt		1/60.

Application notes

Is unsuitable for IP or WB.

Target

Function

This antigen is associated with early stages of melanoma tumor progression. May play a role in growth regulation.

Tissue specificity

Dysplastic nevi, radial growth phase primary melanomas, hematopoietic cells, tissue macrophages.

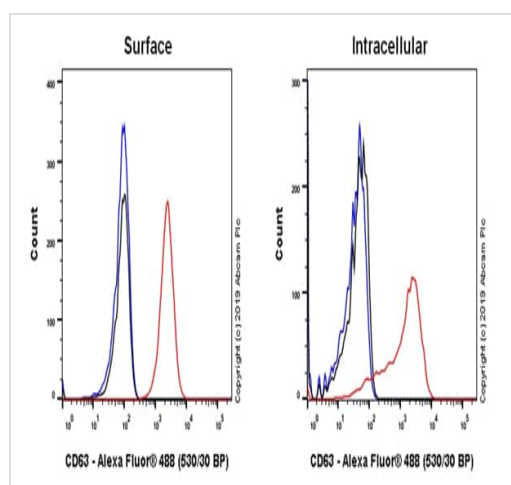
Sequence similarities

Belongs to the tetraspanin (TM4SF) family.

Cellular localization

Cell membrane. Lysosome membrane. Late endosome membrane. Also found in Weibel-Palade bodies of endothelial cells. Located in platelet dense granules.

Images

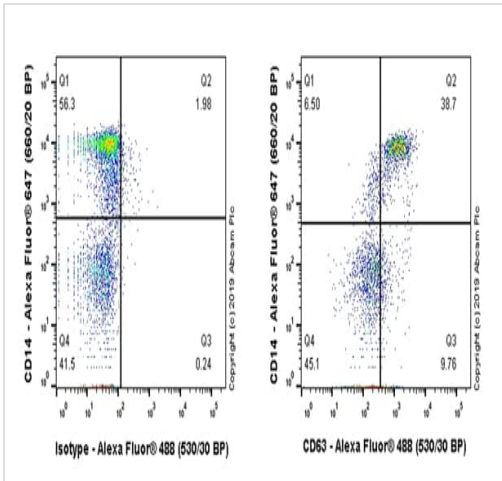


Flow Cytometry - Anti-CD63 antibody [EPR22458-280] (ab252919)

Flow cytometric analysis of SK-MEL-28 (human malignant melanoma cell line) cells labeling CD63 with ab252919 at 1/60 (red) compared with a Rabbit monoclonal IgG Isotype control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (**ab150077**), at 1/2000 dilution was used as the secondary antibody.

Left panel: No fixation/permeabilization; Gated on viable cells for surface CD63 staining.

Right panel: 4% paraformaldehyde fixation / 90% methanol permeabilization.

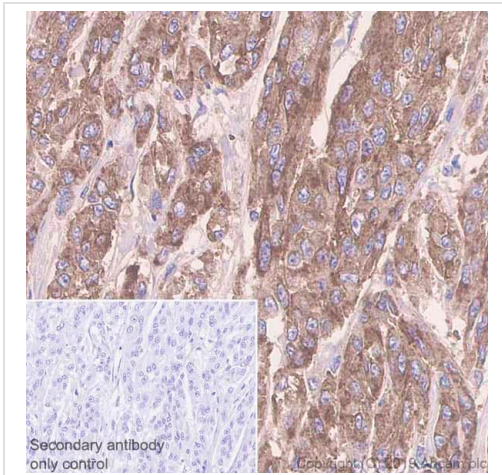


Flow Cytometry (Intracellular) - Anti-CD63 antibody
[EPR22458-280] (ab252919)

Flow cytometric analysis of human peripheral blood mononuclear cells labeling CD63 with ab252919 at 1/60 (right) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (left). Goat Anti-Rabbit IgG Fc (Alexa Fluor® 488) preadsorbed (**ab150097**), at 1/5000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG (Left) or ab252919 (Right). Then stained with anti-CD14 conjugated to Alexa Fluor® 647.

Gated on viable cells.



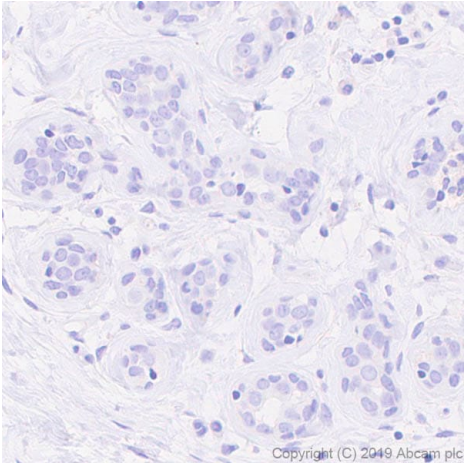
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD63 antibody
[EPR22458-280] (ab252919)

Immunohistochemical analysis of paraffin-embedded human melanoma tissue labeling CD63 with ab252919 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining on human melanoma (PMID: 22425483) is observed. Counter stained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 minutes.

The section was incubated with ab252919 for 30 minutes at RT.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



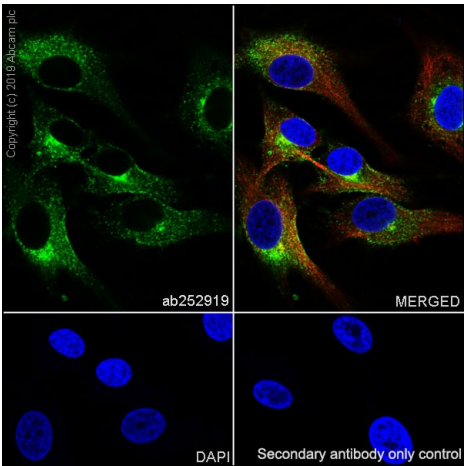
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD63 antibody [EPR22458-280] (ab252919)

Immunohistochemical analysis of paraffin-embedded human breast tissue labeling CD63 with ab252919 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Negative control: No staining on normal epithelial cells and stromal cells in human breast (PMID: 22957045).

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



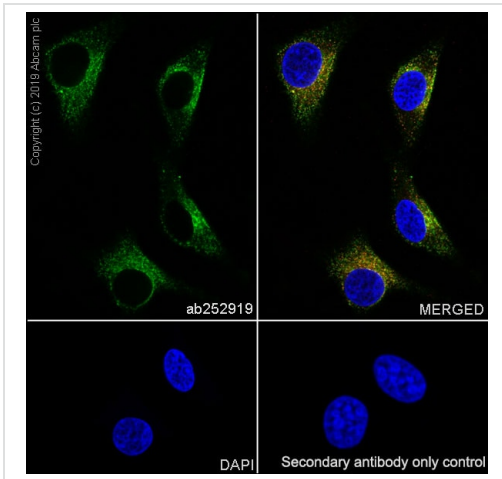
Immunocytochemistry/ Immunofluorescence - Anti-CD63 antibody [EPR22458-280] (ab252919)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SK-MEL-28 (human malignant melanoma cell line) cells labeling CD63 with ab252919 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic and membranous staining in SK-MEL-28 cell line. The nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



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Confocal image showing lysosome/endosomes co-staining in SK-MEL-28 cell line. The nuclear counterstain is DAPI (blue).

Lysosomes/endosomes are detected with Anti-LAMP1 antibody [H4A3] (**ab25630**) at 1/200 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-CD63 antibody [EPR22458-280] (ab252919)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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