

Product datasheet

Anti-CD99 antibody [EPR3096] ab108297

Recombinant RabMAb

[5 References](#) [9 Images](#)

Overview

Product name	Anti-CD99 antibody [EPR3096]
Description	Rabbit monoclonal [EPR3096] to CD99
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: THP-1, Jurkat, U937, Molt-4, HuT-78, and HUVEC cell lysates. IHC: Human pancreas, Human tonsil and Human uterus tissues IP: HUVEC cells. ICC/IF: Jurkat cells. Flow Cyt: Molt-4 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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.31% Sodium citrate, 0.175% Sodium chloride, 0.0172% EDTA disodium salt, 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR3096
Isotype	IgG

Applications

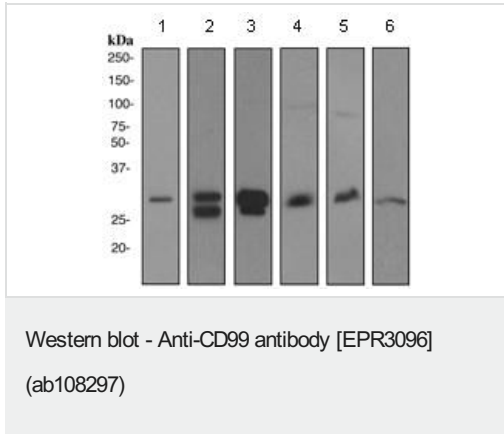
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108297 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 28, 32 kDa (predicted molecular weight: 19 kDa).
IP		1/10 - 1/100.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform antigen retrieval before commencing with IHC staining protocol.
Flow Cyt		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/250 - 1/500.

Target

Function	Involved in T-cell adhesion processes. It is involved in spontaneous rosette formation with erythrocytes.
Sequence similarities	Belongs to the CD99 family.
Post-translational modifications	Extensively O-glycosylated.
Cellular localization	Membrane.

Images



All lanes : Anti-CD99 antibody [EPR3096] (ab108297) at 1/1000 dilution

Lane 1 : THP-1 cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : U937 cell lysate

Lane 4 : Molt-4 cell lysate

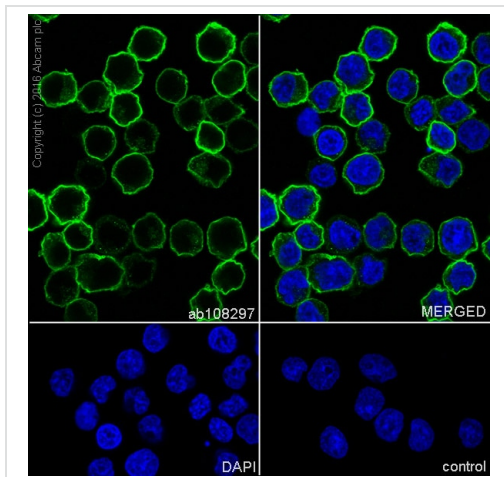
Lane 5 : HuT-78 cell lysate

Lane 6 : HUVEC cell lysate

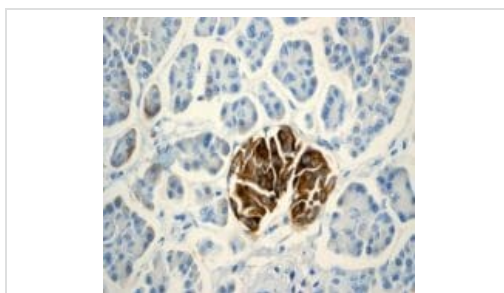
Lysates/proteins at 10 µg per lane.

Predicted band size: 19 kDa

Observed band size: 28,32 kDa

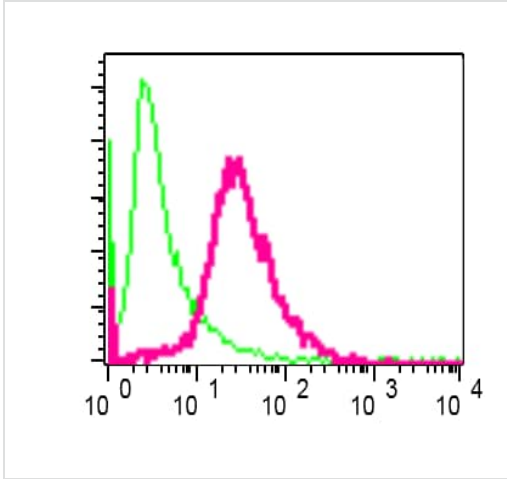


Immunocytochemistry/Immunofluorescence analysis of Jurkat (Human T cell leukemia cell line from peripheral blood) labelling CD99 with purified ab108297 at 1/500. Cells were fixed with 4% PFA and permeabilized with 0.1% triton X-100. **ab150077** Goat anti rabbit IgG (Alexa Fluor® 488) at 1/1000 was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



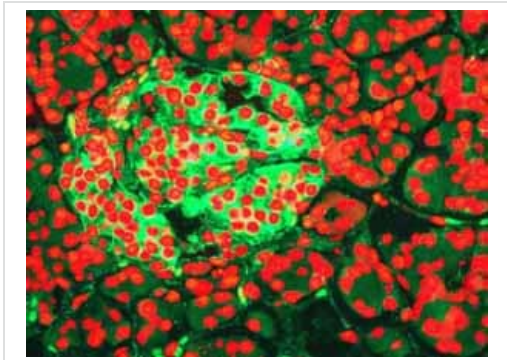
Immunohistochemical staining of paraffin-embedded Human pancreas tissue using ab108297 at a dilution of 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow cytometric analysis of Molt-4 cells using anti-CD99 RabMAb (red) (ab108297) or a rabbit IgG (negative) (green).

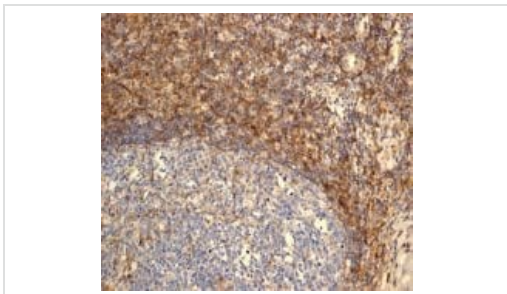
Flow Cytometry - Anti-CD99 antibody [EPR3096] (ab108297)



Fluorescent immunohistochemical analysis of paraffin-embedded human normal pancreas tissue using ab108297. Green-CD99 red-PI

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

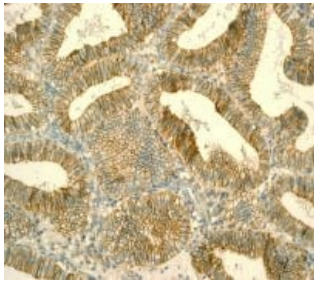
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD99 antibody [EPR3096] (ab108297)



Immunohistochemical staining of paraffin-embedded Human tonsil tissue using ab108297 at a dilution of 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

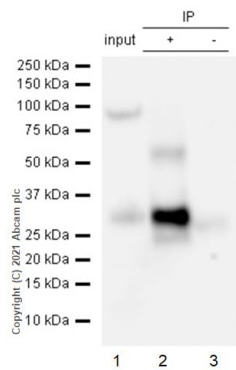
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD99 antibody [EPR3096] (ab108297)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD99 antibody [EPR3096] (ab108297)

Immunohistochemical staining of paraffin-embedded Human uterus tissue using ab108297 at a dilution of 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-CD99 antibody [EPR3096] (ab108297)

CD99 was immunoprecipitated from 0.35 mg HUVEC (Human umbilical vein endothelial cell) whole cell lysate 10 µg with 108297 at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

Lane 1: HUVEC (Human umbilical vein endothelial cell) whole cell lysate 10 µg





Lane 2: ab108297 IP in HUVEC whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab108297 in HUVEC whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

CD99 homodimer was reported in literature. (PMID:18160845)

Why choose a recombinant antibody?

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

Anti-CD99 antibody [EPR3096] (ab108297)

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