

Product datasheet

Anti-CD99 antibody [EPR3097Y] ab75858

Recombinant RabMAb

[2 References](#) [8 Images](#)

Overview

Product name	Anti-CD99 antibody [EPR3097Y]
Description	Rabbit monoclonal [EPR3097Y] to CD99
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB, IP, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: THP-1 lysates. IHC-P: human prostatic hyperplasia, Ewing's sarcoma and tonsil tissues. ICC/IF: Jurkat cells. IP: 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: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR3097Y
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75858 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
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		1/50.
WB		1/1000. Detects a band of approximately 32 kDa (predicted molecular weight: 19 kDa).
IP		1/20. For unpurified use at 1/100
IHC-P		1/1000 - 1/2000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .

Target

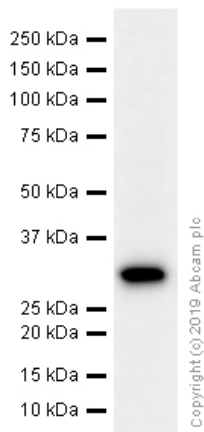
Function Involved in T-cell adhesion processes. It is involved in spontaneous rosette formation with erythrocytes.

Sequence similarities Belongs to the CD99 family.

Post-translational modifications Extensively O-glycosylated.

Cellular localization Membrane.

Images



Western blot - Anti-CD99 antibody [EPR3097Y] (ab75858)

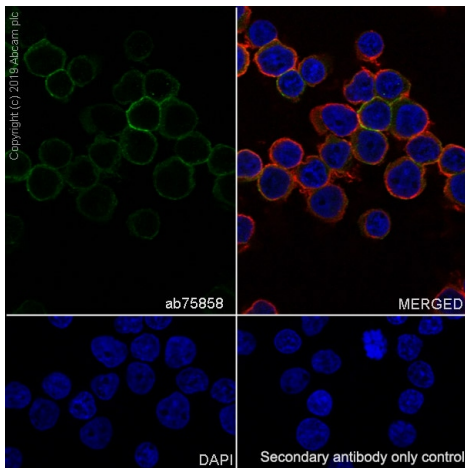
Anti-CD99 antibody [EPR3097Y] (ab75858) at 1/1000 dilution (Purified) + THP-1 (Human monocytic leukemia monocyte) whole cell lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

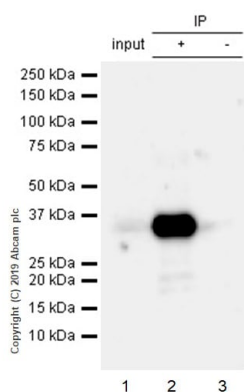
Predicted band size: 19 kDa

Observed band size: 32 kDa



Immunocytochemistry/ Immunofluorescence - Anti-CD99 antibody [EPR3097Y] (ab75858)

Immunocytochemistry/ Immunofluorescence analysis of Jurkat (human T cell leukemia T lymphocyte) cells labeling CD99 with purified ab75858 at 1/50 dilution (2.8 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL) was used as the secondary antibody only control.



Immunoprecipitation - Anti-CD99 antibody [EPR3097Y] (ab75858)

ab75858 (Purified) at 1:20 dilution (0.6 µg) immunoprecipitating CD99 in MOLT-4 whole cell lysate.

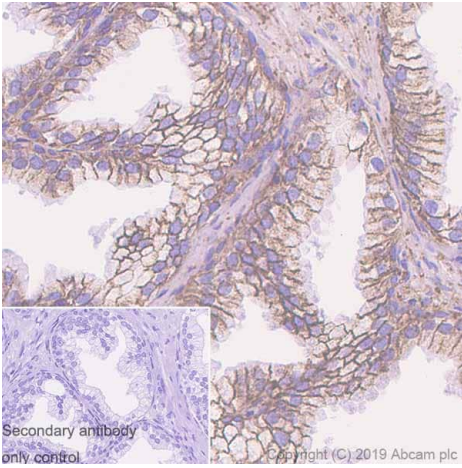
Lane 1 (input): MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate 10 µg

Lane 2 (+): ab75858 & MOLT-4 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab75858 in MOLT-4 whole cell lysate

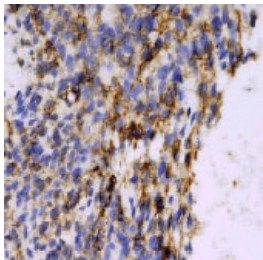
For western blotting, VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



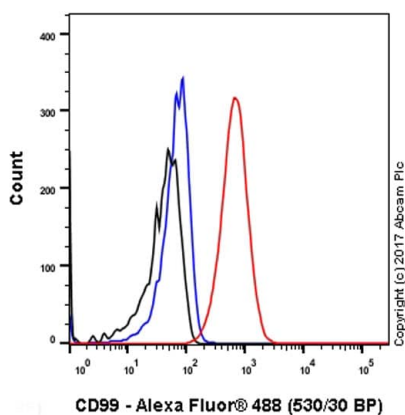
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD99 antibody [EPR3097Y] (ab75858)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostatic hyperplasia tissue sections labeling CD99 with Purified ab75858 at 1:1000 dilution (0.14 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



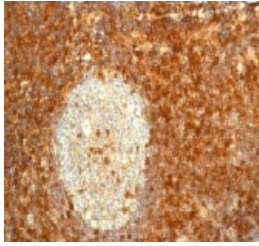
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD99 antibody [EPR3097Y] (ab75858)

ab75858 at 1/1000 dilution staining CD99 in human Ewing's sarcoma by Immunohistochemistry, Paraffin-embedded tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-CD99 antibody [EPR3097Y] (ab75858)

Intracellular Flow Cytometry analysis of Jurkat (Human acute T cell leukemia) labeling CD99 with purified ab75858 at 1/200 dilution (10 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) (**ab172730**) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD99 antibody [EPR3097Y] (ab75858)

ab75858 at 1/1000 dilution staining CD99 in human tonsil by Immunohistochemistry, Paraffin-embedded tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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 [EPR3097Y] (ab75858)

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

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