abcam

Product datasheet

Anti-CD38 antibody [EPR4106] ab108403





重组 RabMAb

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概述

产品名称 Anti-CD38抗体[EPR4106]

描述 兔单克隆抗体[EPR4106] to CD38

宿主 Rabbit

特异性 Not suitable for mouse and rat samples because antibody shows a non-specific cytoplasmic

staining in almost all tested mouse and rat tissues.

经测试应用 适用于: WB, IHC-P, Flow Cyt

不适用于: ICC/IF

与反应: Human 种属反应性

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 WB: Raji and Ramos cell lysates, Human lymph node lysate. IHC-P: Human endometrial

adenocarcinoma, tonsil, lymph node, skeletal muscle and normal colon tissues. Flow Cyt: Raji

cells.

常规说明 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.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

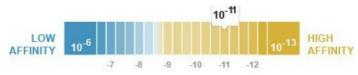
性能

形式 Liquid

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. 存放说明

Stable for 12 months at -20°C.

 $K_D = 1.40 \times 10^{-11} M$ 解离常数(KD)



Learn more about K_D

存储溶液 pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 40% Glycerol, 0.05% BSA, PBS

纯**度** Protein A purified

克隆 単克隆

克隆编号 EPR4106

同种型 IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab108403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		1/2000. Detects a band of approximately 45 kDa (predicted molecular weight: 34 kDa). For unpurified use at 1/1000 - 1/10000.
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols. For unpurified use at 1/100 - 1/250.
Flow Cyt		1/10 - 1/100. ab172730 - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.

应用说明 Is unsuitable for ICC/IF.

靶标

功能 Synthesizes cyclic ADP-ribose, a second messenger for glucose-induced insulin secretion. Also

has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.

组织特异性 Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant

lymphoma and neuroblastoma.

序列相似性 Belongs to the ADP-ribosyl cyclase family.

发展阶段 Preferentially expressed at both early and late stages of the B and T-cell maturation. It is also

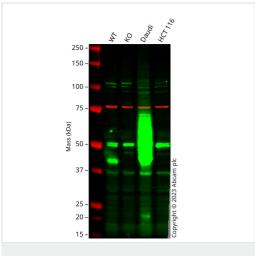
detected on erythroid and myeloid progenitors in bone marrow, where the level of surface

expression was shown to decrease during differentiation of blast-forming unit E to colony-forming

unit E.

细胞定位 Membrane.

图片



Western blot - Anti-CD38 antibody [EPR4106] (ab108403)

All lanes : Anti-CD38 antibody [EPR4106] (ab108403) at 1/2000 dilution

Lane 1: Wild-type A549 cell lysate

Lane 2: CD38 knockout A549 cell lysate

Lane 3 : Daudi cell lysate

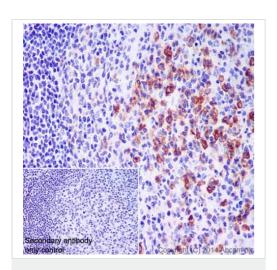
Lane 4: HCT 116 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

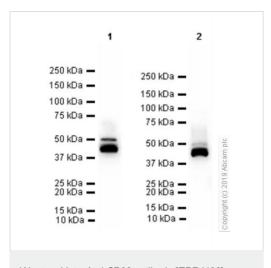
Predicted band size: 34 kDa **Observed band size:** 42 kDa

Anti-CD38 antibody [EPR4106] staining at 1/2000 dilution, shown in green; Mouse anti-CANX [CANX/1543] (ab238078) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab108403 was shown to bind specifically to CD38. A band was observed at 42 kDa in wild-type A549 cell lysates with no signal observed at this size in CD38 knockout cell line. To generate this image, wild-type and CD38 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit lgG H&L 800CW and Goat anti-Mouse lgG H&L 680RD at 1/20000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD38 antibody
[EPR4106] (ab108403)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling CD38 with purified ab108403 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit lgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-CD38 antibody [EPR4106] (ab108403)

Lane 1: Anti-CD38 antibody [EPR4106] (ab108403) at 1/200 dilution

Lane 2: Anti-CD38 antibody [EPR4106] (ab108403) at 1/1000 dilution

Lane 1 : Raji (Human Burkitt's lymphoma B lymphocyte), Whole cell lysate

Lane 2 : Ramos (Human Burkitt's lymphoma B lymphocyte), Whole cell lysate

Lysates/proteins at 20 µg per lane.

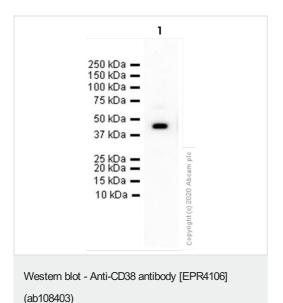
Secondary

All lanes : Goat Anti-Rabbit IgG,(H+L), Peroxidase conjugated (ab97051) at 1/20000 dilution

Predicted band size: 34 kDa

Buffer and concentration: 5% NFDM/TBST

Exposure time, Lane 1: 20 seconds, Lane 2: 30 seconds



Anti-CD38 antibody [EPR4106] (ab108403) at 1/3000 dilution + Human lymph node lysate at 20 μg

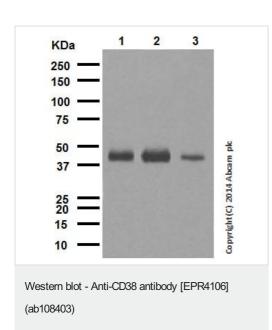
Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 34 kDa

Exposure time: 80 seconds

Buffer and concentration: 5% NFDM/TBST



All lanes : Anti-CD38 antibody [EPR4106] (ab108403) at 1/2000 dilution (purified)

Lane 1: HuT-78 cell lysate

Lane 2: Human fetal thymus tissue lysate

Lane 3: Raji cell lysate

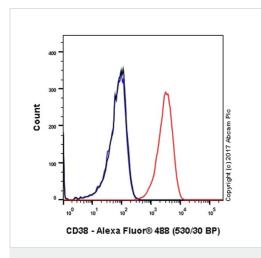
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Peroxidase conjugated goat anti-rabbit lgG (H+L) at 1/1000 dilution

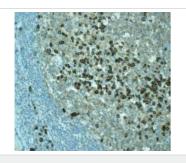
Predicted band size: 34 kDa Observed band size: 45 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Flow Cytometry - Anti-CD38 antibody [EPR4106] (ab108403)

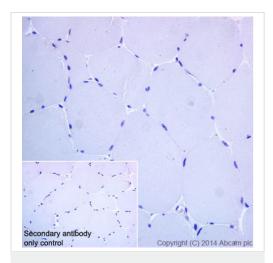
Flow cytometry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labelling CD38 with ab108403 at 1/900 dilution (1.03 µg/ml) (Red). Goat anti rabbit lgG (Alexa Fluor[®] 488, **ab150077**) was used as the secondary antibody at 1/2000 dilution. Isotype control - Rabbit monoclonal lgG (**ab172730**) (Black). Unlabelled control - Unlabelled cells (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD38 antibody
[EPR4106] (ab108403)

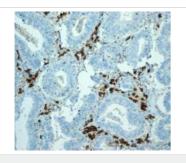
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling CD38 with unpurified ab108403 at a dilution of 1/100.

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



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD38 antibody
[EPR4106] (ab108403)

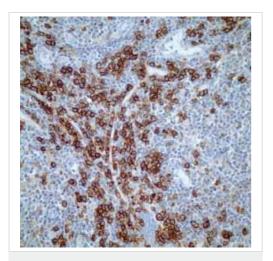
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skeletal muscle tissue labelling CD38 with purified ab108403 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit lgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD38 antibody
[EPR4106] (ab108403)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human endometrial adenocarcinoma tissue labelling CD38 with unpurified ab108403 at a dilution of 1/100.

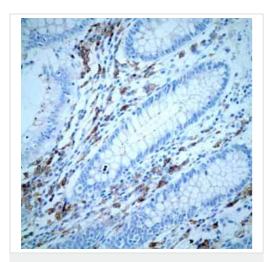
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD38 antibody
[EPR4106] (ab108403)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lymph node tissue labelling CD38 with unpurified ab108403.

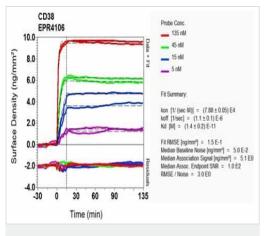
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD38 antibody
[EPR4106] (ab108403)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human colon tissue labelling CD38 with unpurified ab108403.

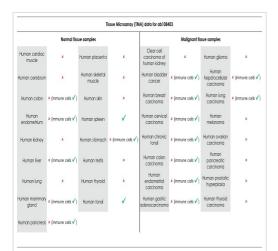
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



OI-RD Scanning - Anti-CD38 antibody [EPR4106] (ab108403)

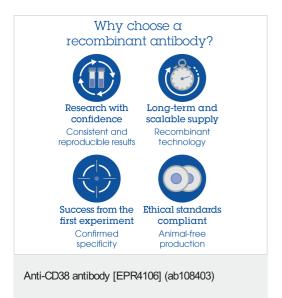
Equilibrium disassociation constant (K_D) Learn more about K_D

Click here to learn more about KD



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD38 antibody
[EPR4106] (ab108403)

Tissue Microarrays stained for "Anti-CD38 antibody [EPR4106]" using "ab108403" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). The sections were incubated with ab108403 at +4°C overnight followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).



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