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Product datasheet

Anti-CD74 antibody [LN2] ab9514



★★★★★ 2 Abreviews 22 References 7 图像

概述

产品名称 Anti-CD74抗体[LN2]

宿主 Mouse

经测试应用 适用于: Flow Cyt, WB, IHC-P, Flow Cyt (Intra)

种属反应性 与反应: Human

免疫原 Tissue, cells or virus corresponding to Human CD74. SU-DHL-4 lymphoma cells

阳性对照 Human tonsil normal tissue lysate - total protein: Hum an tonsil and Human liver tissues; Raji cells

常规说明

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or

contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze /

thaw cycle.

存储溶液 pH: 7.3

Preservative: 0.1% Sodium azide

Constituent: 1% BSA

纯**度** Protein A/G purified

克隆 单克隆

克隆编号 LN2

骨髓瘤 unknown

同种型 lgG1

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应用

The Abpromise guarantee Abpromise™承诺保证使用ab9514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
Flow Cyt		1/10. ab170190 - Mouse monoclonal lgG1, is suitable for use as an isotype control with this antibody.
WB		Use a concentration of 5 µg/ml. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
IHC-P	**** <u>(2)</u>	1/25 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use a concentration of 1 µg/ml.

靶标	

功能 Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II

alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to the endosomal/lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. Serves as cell surface

receptor for the cytokine MIF.

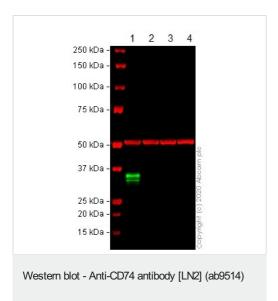
序列相似性 Contains 1 thyroglobulin type-1 domain.

细胞定位 Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus > trans-Golgi network.

Endosome. Lysosome. Transits through a number of intracellular compartments in the endocytic

pathway. It can either undergo proteolysis or reach the cell membrane.

图片



All lanes: Anti-CD74 antibody [LN2] (ab9514) at 5 µg/ml

Lane 1: Wild-type Raji cell lysate

Lane 2: CD74 CRISPR/Cas9 edited Raji cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : HepG2 cell lysate

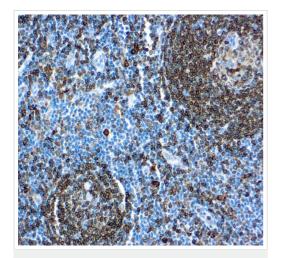
Lysates/proteins at 30 µg per lane.

Performed under reducing conditions.

Predicted band size: 34 kDa Observed band size: 35 kDa

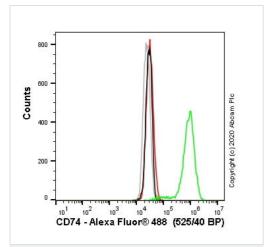
Lanes 1 - 4: Merged signal (red and green). Green - ab9514 observed at 35 kDa. Red - loading control, ab52866 (Rabbit antialpha Tubulin antibody [EP1332Y]) observed at 55 kDa. ab9514 was shown to react with CD74 in western blot. The band

ab9514 was shown to react with CD74 in western blot. The band observed in CD74 CRISPR/Cas9 edited cell line **ab273378** (CRISPR/Cas9 edited cell lysate **ab275529**) below 35 kDa is likely to represent a truncated form. This has not been investigated further. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab9514 and **ab52866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) overnight at 4 °C at 5 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye[®] 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye[®] 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD74 antibody [LN2] (ab9514)

Formalin-fixed, paraffin-embeded human tonsil tissue stained for CD74 using ab9514 at 1/50 dilution in immunohistochemical analysis. Antigen retrieval with citrate buffer pH 6.0.



Flow Cytometry (Intracellular) - Anti-CD74 antibody [LN2] (ab9514)

Flow cytometry overlay histogram showing wild-type Raji (green line) and CD74 knockout Raji cells (ab273378) stained with ab9514 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10µg/ml human lgG and 10% normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab9514) (1x10⁶ in 100µl at 1 µg/ml) for 30 min at 22°C.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor[®] 488, pre-adsorbed) (**ab150117**) was used at 1/2000 for 30 min at 22°C.

Isotype control antibody was mouse IgG1κ (<u>ab170190</u>) used at the same concentration and conditions as the primary antibody (wild-type Raji cells - black line; CD74 knockout Raji cells <u>ab273378</u> - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

This antibody can also be used in Raji cells fixed with 4% formaldehyde (10 min) / permeabilized with 0.1% PBS-Triton X-100 for 15 min used under the same conditions.

Flow Cytometry - Anti-CD74 antibody [LN2] (ab9514)

Overlay histogram showing Raji cells stained with ab9514 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the

antibody (ab9514, 1/10 dilution) for 30 min at 22°C. The secondary antibody used was DyLight[®] 488 goat anti-mouse lgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse lgG1 [ICIGG1] (ab91353, 2 μ g/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

Anti-CD74 antibody [LN2] (ab9514) at 5 μ g/ml + Human tonsil normal tissue lysate - total protein (ab29615) at 10 μ g

Secondary

Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

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

Additional bands at: 37 kDa (possible post-translational

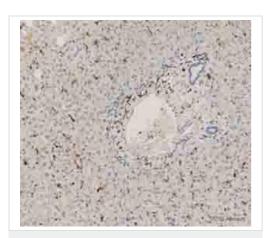
modification)

250 kDa — 150 kDa — 100 kDa — 75 kDa — 50 kDa — 37 kDa — 25 kDa — 20 kDa — 15 kDa —

Western blot - Anti-CD74 antibody [LN2] (ab9514)

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD74 antibody [LN2] (ab9514)

Ab9514 staining CD74 in paraffin embedded Human tonsil tissue sections by Immunohistochemistry (IHC-P).



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD74 antibody [LN2] (ab9514)

Image courtesy of an anonymous Abreview.

ab9514 staining CD74 in human liver tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with neutral buffered formalin and a heat mediated antigen retrieval step was performed using EDTA buffer pH 9.0. Samples were then blocked with 10% serum for 10 minutes at 20°C followed by incubation with the primary antibody at a 1/75 dilution for 30 minutes at 20°C. A HRP-conjugated rat antimouse/rabbit polyclonal was used undiluted as the secondary antibody.

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