

Anti-CD74 antibody [CLIP/3127R] ab270265

敲除验证 重组

★★★★★ 1 Abreviews 6 图像

概述

产品名称	Anti-CD74抗体[CLIP/3127R]
描述	兔单克隆抗体[CLIP/3127R] to CD74
宿主	Rabbit
经测试应用	适用于: IHC-P, WB, Flow Cyt
种属反应性	与反应: Human 预测可用于: Mouse, Baboon 不与反应: Rat
免疫原	Tissue, cells or virus corresponding to Human CD74. SU-DHL-4 lymphoma cells.
阳性对照	IHC-P: Human tonsil tissue. Flow: Raji cells. WB: Raji and HEK-293T cell lysate.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
纯度	Protein A/G purified
纯化说明	Purified from Bioreactor Concentrate by Protein A/G.
克隆	单克隆
克隆编号	CLIP/3127R
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™** 承诺保证使用ab270265于以下的经测试应用

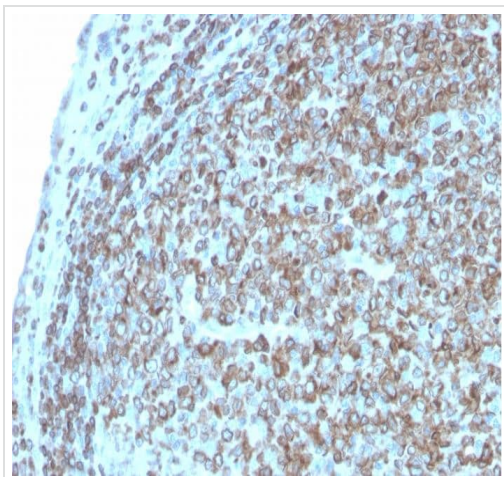
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★★ (1)	Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 34 kDa.
Flow Cyt		Use 1-2µg for 10 <sup>6</sup> cells.

## 靶标

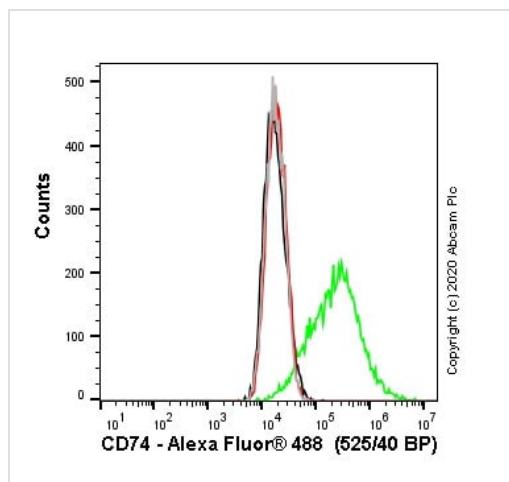
功能	Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to the endosomal/lysosomal system where the antigen processing and binding 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



Formalin-fixed, paraffin-embedded human tonsil stained for CD74 using ab270265 at 2 µg/ml in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD74 antibody  
[CLIP/3127R] (ab270265)



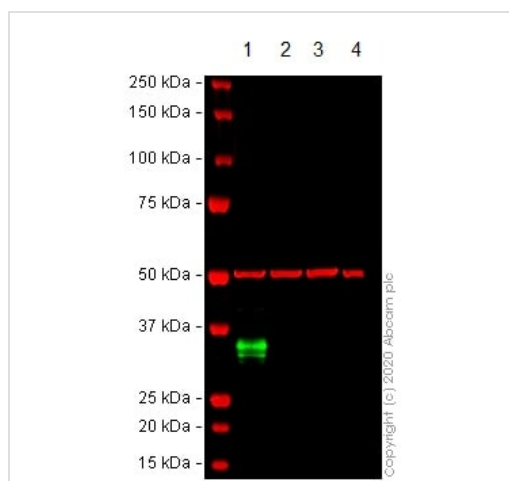
Flow Cytometry - Anti-CD74 antibody [CLIP/3127R]  
(ab270265)

Flow cytometry overlay histogram showing wild-type Raji (green line) and CD74 knockout Raji cells ([ab273378](#)) stained with ab270265 (red line). The cells were incubated in 1x PBS containing 10µg/ml human IgG and 10% normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab270265) ( $1 \times 10^6$  in 100µl at 1 µg/ml) for 30 min at 4°C.

The secondary antibody Goat anti-rabbit IgG H&L (Alexa Fluor® 488, pre-adsorbed) ([ab150081](#)) was used at 1/2000 for 30 min at 4°C.

Isotype control antibody was Rabbit IgG (monoclonal) ([ab172730](#)) used at the same concentration and conditions as the primary antibody (wild-type Raji cells - black line; CD74 knockout Raji cells [ab273378](#) - 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.



Western blot - Anti-CD74 antibody [CLIP/3127R]  
(ab270265)

**All lanes :** Anti-CD74 antibody [CLIP/3127R] (ab270265) at 1 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.

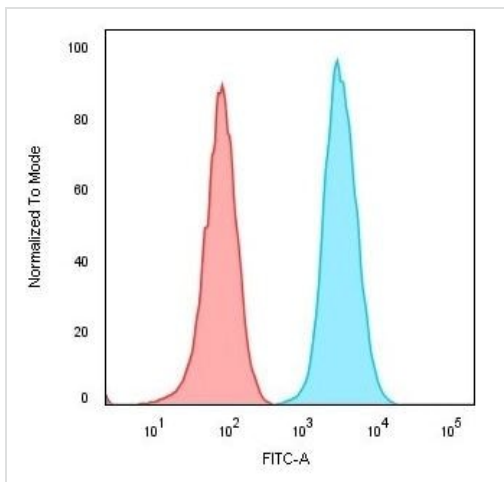
**Predicted band size:** 34 kDa

**Observed band size:** 35 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab270265 observed at 35 kDa. Red - loading control, [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

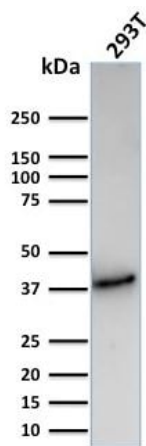
ab270265 was shown to react with CD74 in western blot. The band

observed in CD74 CRISPR/Cas9 edited cell line **ab273378** (CRISPR/Cas9 edited lysate **ab275529**) below 35 kDa is likely to represent a truncated form. This has not been investigated further. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab270265 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at 1 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Flow Cytometry - Anti-CD74 antibody [CLIP/3127R]  
(ab270265)

Flow cytometric analysis of Raji cells labeling CD74 using ab270265 at 2 µg/10<sup>6</sup> cells (Blue), followed by goat anti-mouse IgG-CF488; isotype control (Red).



Western blot - Anti-CD74 antibody [CLIP/3127R]  
(ab270265)

Anti-CD74 antibody [CLIP/3127R] (ab270265) at 2 µg/ml + HEK-293T cell lysate

**Predicted band size: 34 kDa**

### 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-CD74 antibody [CLIP/3127R] (ab270265)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors