

# Anti-Macrophage antibody [RM0029-11H3] ab56297

★★★★★ [2 Abreviews](#) [35 References](#) [5 图像](#)

### 概述

产品名称	Anti-Macrophage抗体[RM0029-11H3]
描述	大鼠单克隆抗体[RM0029-11H3] to Macrophage
宿主	Rat
经测试应用	适用于: ICC/IF, Flow Cyt, IHC-P
种属反应性	与反应: Mouse
免疫原	Isolated mouse peritoneal macrophages
阳性对照	Spleen, Lymph node, Diseased (GBM) mouse kidney tissue. IF/ICC: RAW246.7
常规说明	<p>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.</p> <p>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&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Constituent: PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	RM0029-11H3
同种型	IgG2a

### 应用

The Abpromise guarantee

**Abpromise™** 承诺保证使用ab56297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。

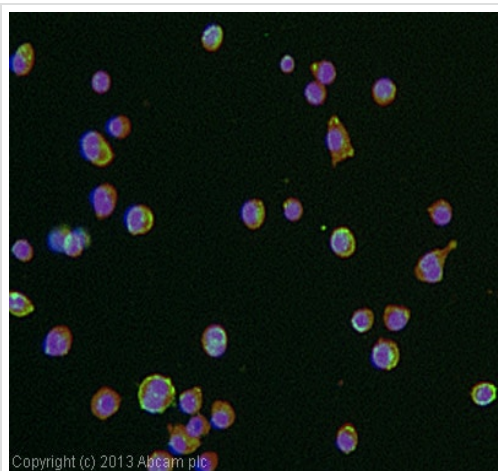
应用	Ab评论	说明
ICC/IF		Use a concentration of 10 µg/ml.
Flow Cyt		Use 2µg for 10 <sup>6</sup> cells. <b>ab18450</b> - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★ (2)	Use at an assay dependent concentration. Perform enzymatic antigen retrieval before commencing with IHC staining protocol.

## 靶标

**相关性**

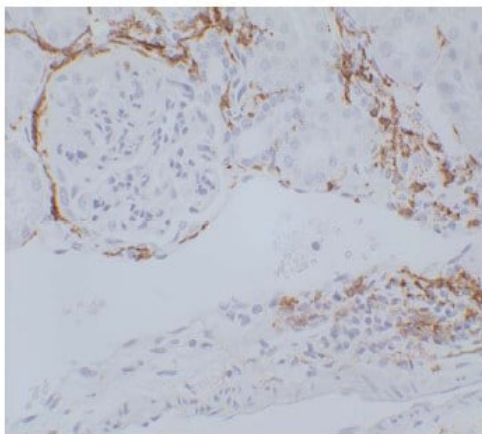
Macrophages comprise of many forms of mononuclear phagocytes found in tissues. Mononuclear phagocytes arise from hematopoietic stem cells in the bone marrow. After passing through the monoblast and promonocyte states of the monocyte stage, they enter the blood, where they circulate for about 40 hours. They then enter tissues and increase in size, phagocytic activity, and lysosomal enzyme content becoming macrophages. Among the functions of macrophages are nonspecific phagocytosis and pinocytosis, specific phagocytosis of opsonized microorganisms mediated by Fc receptors and complement receptors, killing of ingested microorganisms, digestion and presentation of antigens to T and B lymphocytes, and secretion of a large number of diverse products, including many enzymes including lysozyme and collagenases, several complement components and coagulation factors, some prostaglandins and leukotrienes, and many regulatory molecules (Interferon, Interleukin 1). Among cells that are now recognised as macrophages are histiocytes, Kupffer cells, osteoclasts, microglial cells, synovial type A cells, interdigitating cells, and Langerhans cells (in normal tissues) and epithelioid cells and Langerhans-type and foreign-body-type multinucleated giant cells (in inflamed tissues).

## 图片



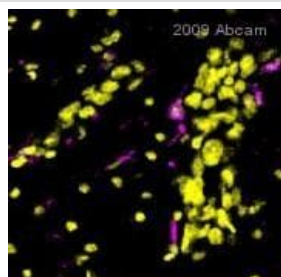
ICC/IF image of ab56297 stained RAW246.7 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab56297, 10µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96887**, DyLight® 488 goat anti-rat IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM

Immunocytochemistry/ Immunofluorescence - Anti-Macrophage antibody [RM0029-11H3] (ab56297)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Macrophage antibody  
[RM0029-11H3] (ab56297)

Bouin's solution fixed and paraffin embedded mouse kidney section from anti-GBM model was subjected to immunohistochemistry staining (ABC) of Macrophage using ab56297.



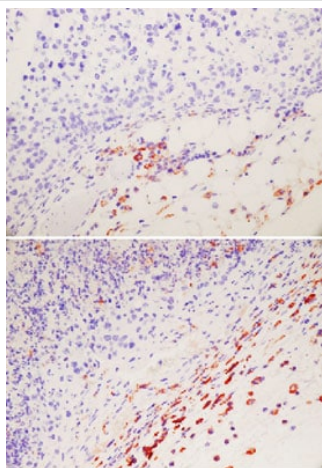
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Macrophage antibody  
[RM0029-11H3] (ab56297)

This image is courtesy of an anonymous Abreview

Ab56297 staining macrophage in mouse brain tumour tissue sections by (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 0.5% TNB blocking reagent for 30 minutes at 25°C. Samples were incubated with primary antibody at 1/100 dilution for 18 hours at 4 C. A goat anti-rat IgG H&L (HRP) ([ab7097](#)) was used at 1/500 dilution.

Flow Cytometry - Anti-Macrophage antibody  
[RM0029-11H3] (ab56297)

Overlay histogram showing RAW 264.7 cells stained with ab56297 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab56297, 2µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rat IgG (H+L) ([ab98386](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rat IgG2a, kappa monoclonal [aRTK2758] ([ab18450](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in RAW 264.7 cells fixed with 80% methanol/permeabilized in 0.1% PBS-Tween used under the same conditions.



Immunohistochemical analysis of murine tumour tissue, staining Macrophage with ab56297. Antigen retrieval was performed under high pressure in 10 mM EDTA buffer (pH 8.0) before incubation with primary antibody.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Macrophage antibody  
[RM0029-11H3] (ab56297)

Image from Wang B et al., BMC Immunol. 2011 Aug 4;12:43. Fig 1.; doi:10.1186/1471-2172-12-43; 4 August 2011, BMC Immunology 2011, 12:43

**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