abcam

Product datasheet

Anti-CD68 antibody [SP251] ab192847

重组 RabMAb

★★★★★ 2 Abreviews 9 图像

概述

产品名称	Anti-CD68抗体[SP251]
描述	**兔单克隆抗体**[SP251] to CD68
宿主	Rabbit
经测试应用	**适用于:** mIHC, IHC-P, Flow Cyt
种属反应性	**与反应:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human tonsil. Flow Cyt: Raji cells. mIHC: Hu lung cancer tissue
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**. **This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.**

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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.1% Sodium azide Constituents: 1% BSA, PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	SP251

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab192847于以下的经测试应用**

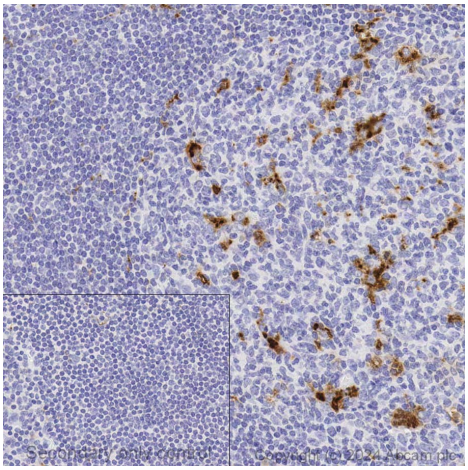
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
mIHC		1/300.
IHC-P	★★★★★ (2)	1/100. Boil tissue section in citrate buffer, pH 6.0 for 10 minutes followed by cooling at room temperature for 20 minutes. Incubate with primary antibody for 10 minutes at room temperature. **Recommend Hu species.** IHC result showed staining on the
Flow Cyt		1/100. Incubate with primary antibody for 30 minutes at 4 °C.

靶标

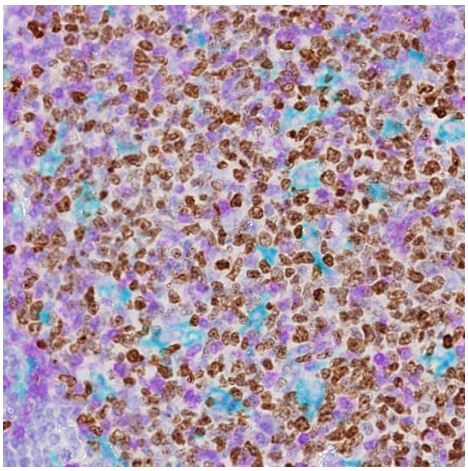
功能	Could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells.
组织特异性	Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.
序列相似性	Belongs to the LAMP family.
翻译后修饰	N- and O-glycosylated.
细胞定位	Cell membrane and Endosome membrane. Lysosome membrane.

图片



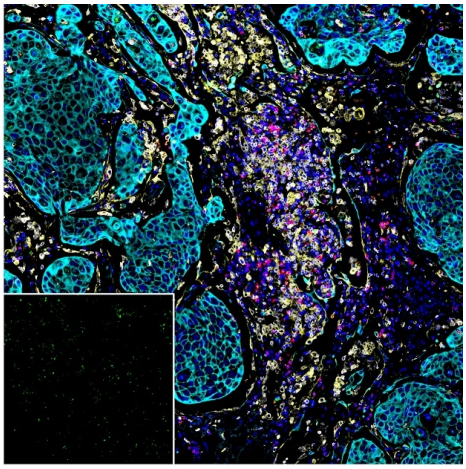
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD68 antibody [SP251] (ab192847)

Immunohistochemical analysis of formalin fixed paraffin (FFPE) embedded tonsil labelling CD68 with ab192847 at a dilution of 1/600. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with an ChromoMap DAB (RUO) IHC Detection Kit with anti rabbit HQ and anti HQ HRP. Heat mediated antigen retrieval was conducted for 24 min with DISCOVERY cell conditioning solution (CC1) 100°C, pH 8.5. ab192847 was incubated at 37°C for 16 min. Sections were counterstained is with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.



Multiplex immunohistochemistry - Anti-CD68 antibody [SP251] (ab192847)

Chromogenic multiplex immunohistochemical staining of FFPE normal human tonsil tissue. Ab16667, anti-Ki67 DAB chromogen. Ab16669, anti-CD3 purple chromogen and ab192847, anti-CD68 teal chromogen plus haematoxylin II counterstain.
Chromogenic immunostaining was performed on a Roche Ventana Benchmark Ultra instrument. The section was deparaffinised and incubated with CC1 solution for 24min, 100°C. Following this, with 3 rounds of staining in the order of **ab16667** (1/500), ab192847 (1/4000) **ab16669** (1/1000). Between rounds of staining, antibody denaturation was conducted using Ultra CC2 solution for 8min at 100°C to avoid cross reactivity. Signal was developed with anti-rabbit HQ followed by anti-HQ HRP coupled with Chromomap DAB kit, Discovery purple or Discovery teal chromogens and haematoxylin II counterstain.



Multiplex immunohistochemistry - Anti-CD68 antibody [SP251] (ab192847)

This image is courtesy of TissueGnostics Asia Pacific Limited

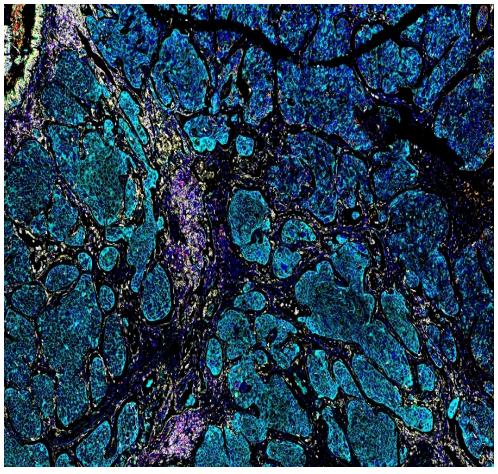
10-color fluorescence multiplex immunohistochemical analysis of human lung cancer tissue (formalin-fixed paraffin-embedded section).

Merged staining of anti-FOXP3 (**ab215206**; Cyan; TG540N), anti-PD1 (**ab52587**; Red; TG700N), anti-CD163 (**ab182422**; Brown; TG650N), anti-HLA-DR (**ab92511**; Yellow; TG570N), anti-CD4 (**ab133616**; Violet; TG620N), anti-CD8 alpha (**ab101500**; Purple; TG540S), anti-CD20 (**ab9475**; Grey; TG660S), anti-CD68 (**ab192847**; Green; TG520N), anti-Cytokeratin 19 (**ab52625**; Light blue; TG440N). TG470SN (dark blue) was used as a nuclear counter stain. The inset image shows the separate CD68 signal.

The section was incubated in nine rounds of staining; in the order of **ab215206** (1/100 dilution), **ab52587** (1/200 dilution), **ab182422** (1/300 dilution), **ab92511** (1/200 dilution), **ab133616** (1/600 dilution), **ab101500** (1/300 dilution), **ab9475** (1/100 dilution), **ab192847** (1/300 dilution), **ab52625** (1/400 dilution); each using a separate fluorescent tyramide signal amplification system.

Sodium citrate antigen retrieval (pH6.0) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity.

Image acquisition was performed with TissueFAXS Spectra (TissueGnostics).



Multiplex immunohistochemistry - Anti-CD68 antibody [SP251] (ab192847)

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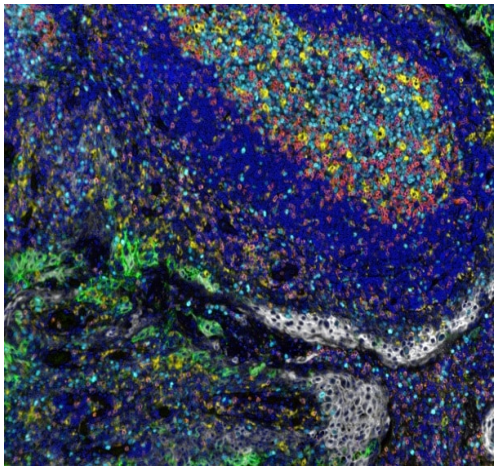


Multiplex immunohistochemistry - Anti-CD68 antibody [SP251] (ab192847)

Fluorescence multiplex immunohistochemical analysis of normal human tonsil tissue (formalin-fixed paraffin-embedded section).

Merged staining of anti-PD1 (**ab237728**; orange; Opal™520), anti-PDL1 (**ab237726**; green; Opal™540), anti-CD68 (ab192847; yellow; Opal™570), anti-CD3 (**ab16669**; red; Opal™620), anti-Ki67 (**ab16667**; light blue; Opal™650) and anti-PanCK (**ab7753**; grey; Opal™690).

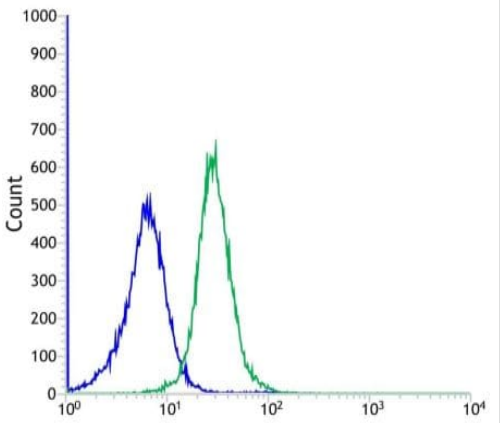
The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 7-color automation IHC kit (NEL821001KT, Akoya Biosciences®).

The section was incubated in six rounds of staining; in the order of **ab237728** (1/500 dilution), **ab237726** (1/500 dilution), ab192847 (1/300 dilution), **ab16669** (1/300 dilution), **ab16667** (1/200 dilution) and **ab7753** (1/200 dilution); each using a separate fluorescent tyramide signal amplification system.

Sodium citrate antigen retrieval (Leica ER1, pH6.0, 30 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity.

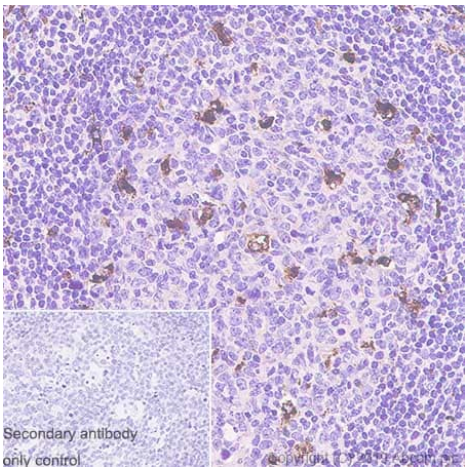
DAPI (dark blue) was used as a nuclear counter stain.

Microscopy and pseudocoloring of individual Opal™ dyes was performed using a Vectra Polaris.



Flow Cytometry - Anti-CD68 antibody [SP251] (ab192847)

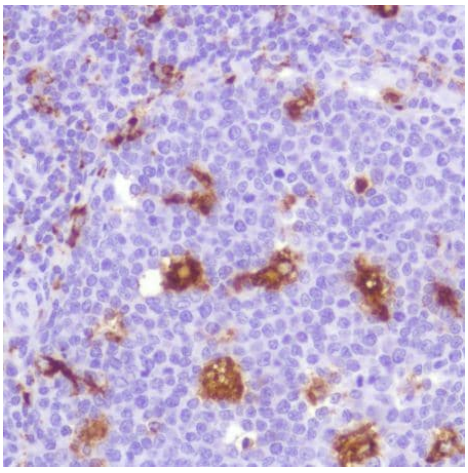
Flow cytometric analysis of Raji (human Burkitt's lymphoma cell line) cells labeling CD68 with ab192847 at 1/100 dilution (green) compared with a negative control rabbit IgG (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD68 antibody [SP251] (ab192847)

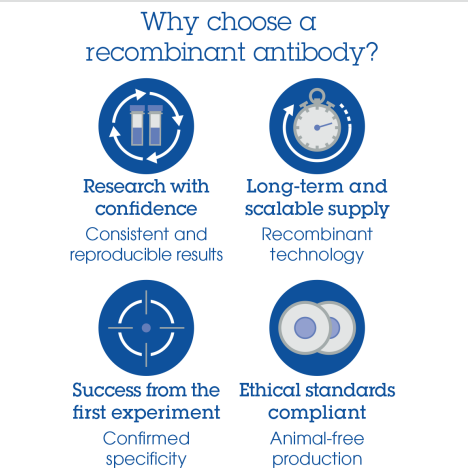
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling CD68 with ab192847 at 1/100 dilution (0.184 µg/ml) (incubated for 10 minutes at room temperature). Heat mediated antigen retrieval was performed with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 minutes. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Negative control: PBS instead of the primary antibody.

Positive staining on the macrophages in human tonsil, performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD68 antibody [SP251] (ab192847)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for CD68 using ab192847 at 1/100 dilution in immunohistochemical analysis.



Anti-CD68 antibody [SP251] (ab192847)

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