abcam

Product datasheet

Anti-F4/80 antibody [BM8] ab16911

6 Abreviews 33 References 画像数 7

製品の概要

製品名	Anti-F4/80 antibody [BM8]
製品の詳細	Rat monoclonal [BM8] to F4/80
由来種	Rat
特異性	The monoclonal antibody BM8 recognizes a 125 kDa extracellular macrophage membrane molecule, highly restricted to mature macrophage subpopulations residing in tissue. This antibody does not cross react with any of the following cell types from Mouse: granulocytes, mast cells, platelets, lymphocytes, fibroblasts or endothelial cells. Although several publications have used this antibody succesfully in human, we have been unable to obtain positive results in this species and so do not guarantee it.
アプリケーション	**適用あり:** ICC/IF, IHC-P, Flow Cyt, WB, IHC-Fr
種交差性	**交差種:** Mouse, Human
免疫原	BALB/c macrophages obtained from 14-day-old bone marrow cell cultures.
ポジティブ・コントロール	Mouse macrophages
特記事項	ab16911 is the only macrophage marker that is able to distinguish non-destructive from destructive inflammation prcoesses in the pancreas. Furthermore it is a unique histological marker of the progression from peri-insulitis to beta-cell and diabetes in a mouse diabetes model.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 0.1% BSA, PBS
精製度	Protein G purified
特記事項（精製）	Provided as a 0.2µm filtered antibody solution.
一次抗体 備考	ab16911 is the only macrophage marker that is able to distinguish non-destructive from destructive inflammation prcoesses in the pancreas. Furthermore it is a unique histological marker of the progression from peri-insulitis to beta-cell and diabetes in a mouse diabetes model.

ポリ/モノ	**モノクローナル**
クローン名	BM8
アイソタイプ	IgG2a

アプリケーション

Our Abpromise guarantee covers the use of **ab16911** in the following tested applications.

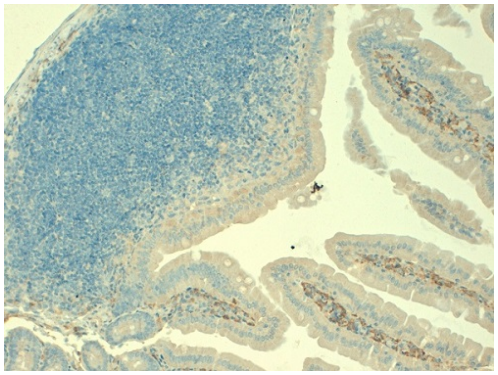
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★☆	Use at an assay dependent concentration.
IHC-P	★☆☆☆☆	Use at an assay dependent concentration. PubMed: 28186091
Flow Cyt		1/50. (Methanol fixed cells) ab18450 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
WB		1/50. Use under non reducing condition. Predicted molecular weight: 125 kDa.
IHC-Fr	★★★★☆	1/50. See Schaller et al. Fixation with acetone for 10 min at RT is recommended as is an incubation with 0.02 M sodium azide in PBS containing 0.1 % H_2O_2 for 10 min at RT to destroy endogenous peroxidase

ターゲット情報

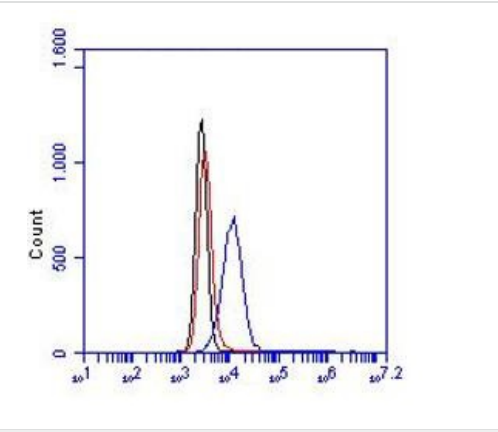
機能	Orphan receptor involved in cell adhesion and probably in cell-cell interactions specifically involving cells of the immune system. May play a role in regulatory T-cells (Treg) development.
組織特異性	Expression is restricted to eosinophils.
配列類似性	Belongs to the G-protein coupled receptor 2 family. Adhesion G-protein coupled receptor (ADGR) subfamily. Contains 6 EGF-like domains. Contains 1 GPS domain.
細胞内局在	Cell membrane.

画像



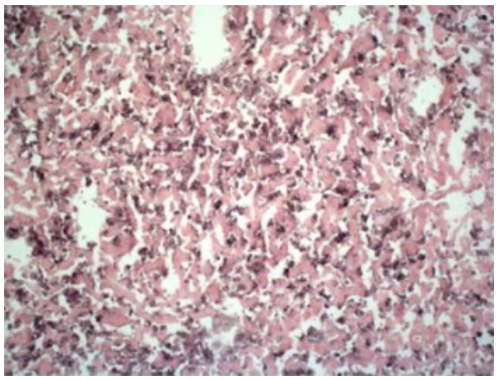
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-F4/80 antibody [BM8] (ab16911)

Paraffin embedded sections of mouse colon stained with ab16911 at 2 µg/ml.



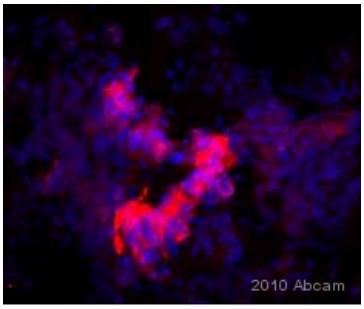
Flow Cytometry - Anti-F4/80 antibody [BM8] (ab16911)

Detection of F4/80 in RAW cells. Red, black and blue line represent the isotype control, cells only and ab16911 at 10 µg/ml, respectively.



Immunohistochemistry (Frozen sections) - Anti-F4/80 antibody [BM8] (ab16911)

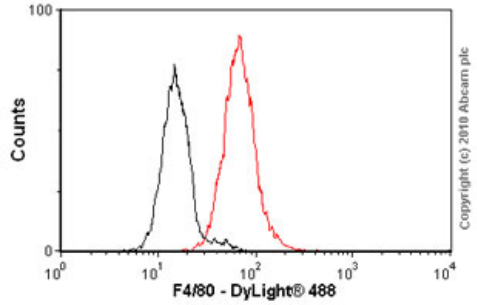
ab16911 staining F4/80 on macrophages in mouse liver tissue by Immunohistochemistry (Frozen sections).



Immunocytochemistry/ Immunofluorescence - Anti-F4/80 antibody [BM8] (ab16911)

This image is courtesy of an anonymous Abreview

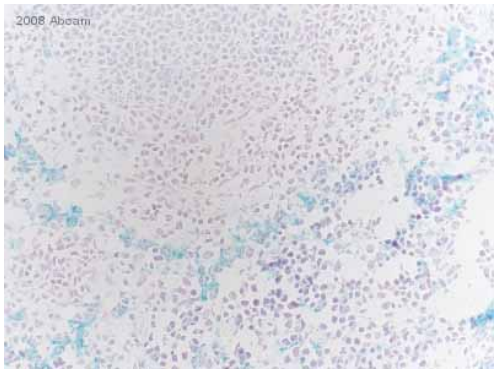
ab16911 staining F4/80 in Mouse brain cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with acetone and blocked with 5% BSA for 1 hour at 20°C. Samples were incubated with primary antibody (1/250) for 16 hours at 4°C. An Alexa Fluor®568-conjugated Goat anti-rat IgG polyclonal (1/1000) was used as the secondary antibody.



Flow Cytometry - Anti-F4/80 antibody [BM8] (ab16911)

Overlay histogram showing HeLa cells stained with ab16911 (red line). The cells were fixed with 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 (ab16911, 1/10 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rat IgG (Fc) (ab96971) at 1/250 dilution for 30 min at 22°C. Isotype control antibody (black line) was rat IgG2a [aRTK2758] (ab18450, 2µg/1x10^6 cells cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a significantly decreased signal in HeLa cells fixed with 4% paraformaldehyde (10 min) used under the same conditions.

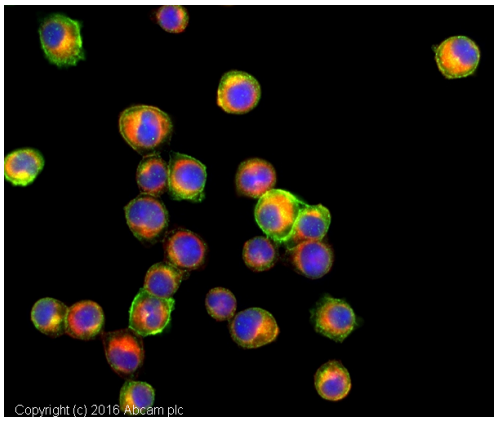
Please note that Abcam does not have data for use of this antibody on non-fixed cells. We welcome any customer feedback.



Immunohistochemistry (Frozen sections) - Anti-F4/80 antibody [BM8] (ab16911)

This image is courtesy of an Abreview submitted by Miss Silke Vorwald

ab16911 staining mouse spleen tissue sections by immunohistochemistry (frozen sections). Sections were paraformaldehyde fixed without permeabilization and blocked in 1% serum for 10 minutes at 20°C. The primary antibody was used undiluted and incubated with sample for 16 hour at 20°C. A Biotin conjugated goat polyclonal to rat Ig, diluted 1/500 was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-F4/80 antibody [BM8] (ab16911)

ab16911 stained RAW246.7 cells. The cells were 100% methanol fixed for 5 minutes at -20°C and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab16911 at 1in50 dilution) overnight at +4°C. The secondary antibody (pseudo-colored green) was Goat Anti-Rat IgG H&L (Alexa Fluor® 488) preadsorbed (ab150165) used at a 1/1000 dilution for 1hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.

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