abcam

Product datasheet

Anti-CD68 antibody [FA-11] ab53444

Recombinant

★★★★ 25 Abreviews 256 References 2 Images

Overview

Product name Anti-CD68 antibody [FA-11]

Description Rat monoclonal [FA-11] to CD68

Host species Rat

Tested applications Suitable for: ICC/IF, Flow Cyt (Intra)

Unsuitable for: IHC-Fr

Species reactivity Reacts with: Mouse

Immunogen Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.

Positive control Flow Cyt: RAW 264.7 cells ICC/IF: RAW 264.7

General notes This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or

conjugation for your experiments, please contact orders@abcam.com.

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.

Properties

Form Liquid

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long Storage instructions

term.

Storage buffer Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity Protein A purified

Clonality Monoclonal

Clone number FA-11 Isotype lgG2a

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab53444 in the following tested applications.

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

Application	Abreviews	Notes
ICC/IF	★★★★ (1)	1/50.
Flow Cyt (Intra)		1/100. Membrane permeabilisation is required for this application. ab18450 - Rat monoclonal lgG2a, is suitable for use as an isotype control with this antibody.

Application notes

Is unsuitable for IHC-Fr.

Function

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.

Tissue specificity

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.

Sequence similarities

Belongs to the LAMP family.

Post-translational

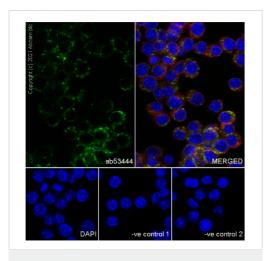
modifications

N- and O-glycosylated.

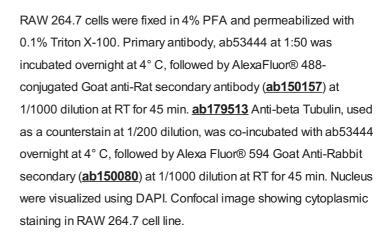
Cellular localization

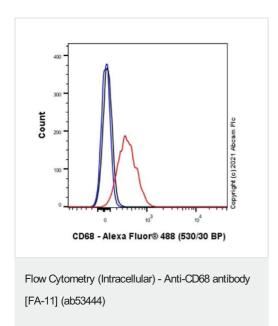
Cell membrane and Endosome membrane. Lysosome membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-CD68 antibody [FA-11] (ab53444)





Flow Cytometry analysis of 4% paraformaldehyde-fixed RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cells labelling CD68 with AB53444 at a 1/100 dilution (1 µg) (Red) compared to Rat monoclonal lgG - Isotype Control (Black) and cells without incubation with primary antibody and secondary antibody (Blue). Goat F(ab)2 Anti-Rat lgG Fc (Alexa Fluor® 488, **ab150161**) at 1/2000 dilution was used as the secondary antibody.

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

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