

## Purified anti-mouse CD68

**Catalog # / Size:** 137001 / 50 µg  
137002 / 500 µg

**Clone:** FA-11

**Isotype:** Rat IgG2a

**Immunogen:** Purified Con A receptor glycoproteins from the P815 cell line

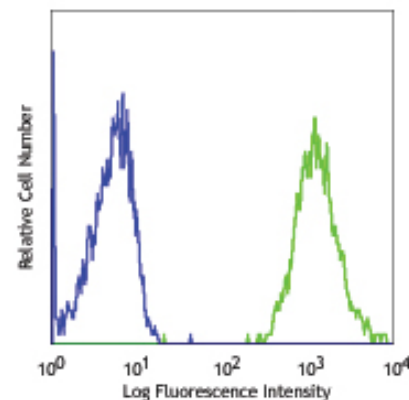
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



*Thioglycolate-elicited Balb/c peritoneal macrophages intracellularly stained with FA-11 Alexa Fluor® 647*

## Applications:

**Applications:** FC, ICFC - *Quality tested*  
IP, WB, IHC - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported (for relevant formats) applications include: immunoprecipitation<sup>1, 2</sup>, Western Blot<sup>1, 2</sup>, and immunohistochemical staining of frozen sections<sup>2</sup> and paraformaldehyde-fixed paraffin-embedded sections<sup>3</sup>.

**Application References:**

1. Silva RP, *et al.* 1999. *Biochem. J.* 338:687. (IP, WB)
2. Rabinowitz SS, *et al.* 1991. *J. Exp. Med.* 174:827. (IP, WB, IHC)
3. Wu J, *et al.* 2008. *P. Natl. Acad. Sci. USA* 105:16934. (IHC)
4. Kayama H, *et al.* 2012. *PNAS.* 109:5010. PubMed.
5. Park S, *et al.* 2013. *Biomaterials.* 34:598. PubMed.

**Description:** Mouse CD68, also known as macrosialin, is an 85-115 kD member of the lysosomal-associated membrane protein (LAMP) family. It is a heavily glycosylated and predominantly intracellular protein, mainly in late endosomes. Macrosialin is the murine homolog to the human macrophage glycoprotein CD68. It is expressed on tissue macrophages, Langerhans cells and at low levels on dendritic cells. Lamp proteins may have functions relating to cell-cell interaction or cell-ligand interaction. The biological function of CD68 is not completely understood.

**Antigen References:**

1. Ramprasad MP, *et al.* 1996. *Proc. Natl. Acad. Sci. USA* 93:14833.
2. Smith MJ, *et al.* 1987. *J. Cell. Sci.* 87:113.

### Related Products: Product

Purified anti-rat IgG2a  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

### Clone

MRG2a-83

### Application

ELISA, FC  
FC, ICC, ICFC  
FC, ICFC



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