

APC anti-mouse CD68 Antibody

Catalog# / Size	137007 / 25 µg 137008 / 100 µg
Clone	FA-11
Other Names	Macrosialin
Isotype	Rat IgG2a
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.

Product Details

Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Purified Con A receptor glycoproteins from the P815 cell line
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested FC - Validated
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported (for relevant formats) applications include: immunoprecipitation ^{1,2} , Western Blot ^{1,2} , and immunohistochemical staining of frozen sections ² and paraformaldehyde-fixed paraffin-embedded sections ³ .
Application References	<ol style="list-style-type: none"> 1. Silva RP, et al. 1999. <i>Biochem. J.</i> 338:687. (IP, WB) 2. Rabinowitz SS, et al. 1991. <i>J. Exp. Med.</i> 174:827. (IP, WB, IHC) 3. Wu J, et al. 2008. <i>P. Natl. Acad. Sci. USA</i> 105:16934. (IHC) 4. Kayama H, et al. 2012. <i>PNAS.</i> 109:5010. PubMed 5. Park S, et al. 2013. <i>Biomaterials.</i> 34:598. PubMed 6. Guiducci C, et al. 2013. <i>J Exp Med.</i> 210:2903. PubMed 7. McKinstry SU, et al. 2014. <i>J Neurosci.</i> 34:9455. PubMed 8. Li X, et al. 2015. <i>J Am Heart Assoc.</i> 6:4. PubMed
Product Citations	<ol style="list-style-type: none"> 1. Feuerstein R, et al. 2015. <i>J Immunol.</i> 194:2735. PubMed 2. Krishack P, et al. 2015. <i>J Am Heart Assoc.</i> 4: 001858. PubMed 3. Izquierdo-Useros N, et al. 2014. <i>J Immunol.</i> 192:4852-4858. PubMed 4. Morishita Y, et al. 2016. <i>Sci Rep.</i> 6:21705. PubMed 5. Wang X, et al. 2017. <i>Br J Pharmacol.</i> 10.1111/bph.13786. PubMed 6. Wang Y et al. 2017. <i>Cell.</i> 171(2):331-345. PubMed 7. Berry MR et al. 2017. <i>Cell.</i> 170(5):860-874. PubMed 8. Li S, et al. 2019. <i>Front Neurol.</i> 1.036805556. PubMed

RRID

AB_10575299 (BioLegend Cat. No. 137007)
AB_10575300 (BioLegend Cat. No. 137008)

Antigen Details

Structure	A member of the lysosomal-associated membrane protein (lamp) family.
Distribution	Expressed on tissue macrophages, Langerhans cells, and at low levels on dendritic cells.
Function	Involved in cell-cell interaction or cell-ligand interaction, still not completely understood.
Cell Type	Antigen-presenting cells, Dendritic cells, Langerhans cells, Leukocytes, Macrophages
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Adhesion Molecules, CD Molecules, Innate Immune Signaling
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.
Gene ID	12514

Related Protocols

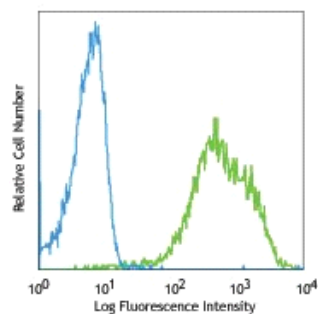
[Intracellular Cytokine Staining Protocol - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD68, Alexa Fluor® 647 anti-mouse CD68, FITC anti-mouse CD68, PerCP/Cyanine5.5 anti-mouse CD68, Alexa Fluor® 488 anti-mouse CD68, PE anti-mouse CD68, PE/Cyanine7 anti-mouse CD68, Brilliant Violet 421™ anti-mouse CD68, Alexa Fluor® 594 anti-mouse CD68, APC/Cyanine7 anti-mouse CD68, Brilliant Violet 605™ anti-mouse CD68, Brilliant Violet 711™ anti-mouse CD68, Alexa Fluor® 700 anti-mouse CD68, Pacific Blue™ anti-mouse CD68, TotalSeq™-A0560 anti-mouse CD68, TotalSeq™-C0560 anti-mouse CD68, Brilliant Violet 785™ anti-mouse CD68

Product Data



Thioglycolate-elicited Balb/c peritoneal macrophages intracellularly stained with FA-11 APC

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587