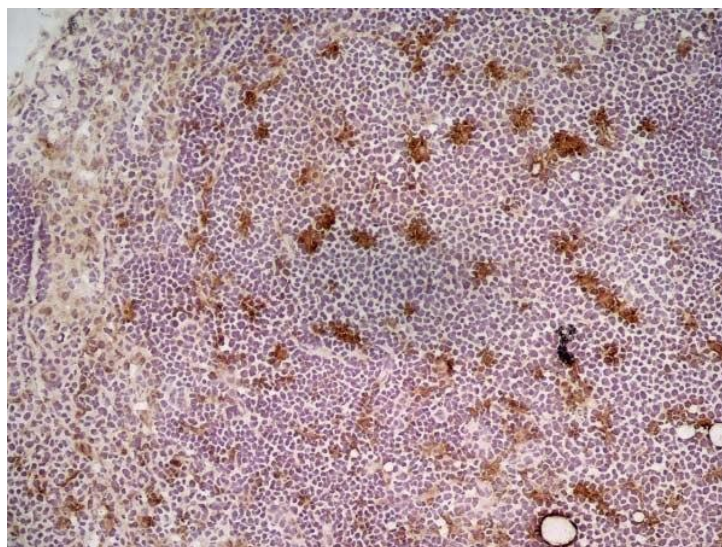


## Rat Anti-Mouse CD68 [Clone FA-11]

Cat # NB-47-03278 size: 25µg



Frozen mouse lymph node stained with rat anti-mouse CD68 at a 1/100 dilution followed by goat anti-rat IgG:HRP (NB-47-06057-500UG) at a 1/50 dilution. Western blot analysis of lysate from DU145 cells, primary antibody was diluted 1:1000, 4°C overnight

### Description

Rat anti Mouse CD68 antibody, clone FA-11 recognizes mouse macrosialin, a heavily glycosylated transmembrane protein and murine homolog of human CD68, classified as a unique scavenger receptor (ScR) family member, due to the presence of a lysosome associated membrane protein (LAMP)-like domain.

CD68 is considered a pan macrophage marker, predominantly expressed on the intracellular lysosomes of tissue macrophages/monocytes, including Kupffer cells, microglia, histiocytes and osteoclasts, and is expressed to a lesser extent by dendritic cells and peripheral blood granulocytes.

CD68 is expressed by many tumor types including some B cell lymphomas, blastic NK lymphomas, melanomas, granulocytic (myeloid) sarcomas, hairy cell leukemias, and renal, urinary and pancreatic tumors, and can be used to demonstrate the presence/localization of macrophages.

Rat anti mouse CD68 antibody, clone FA-11, has been used in many mouse models for the identification of CD68 in immunohistochemical assays, using both frozen and paraffin-embedded tissues (Masaki et al. 2003) and (Devey et al. 2009).

Rat anti mouse CD68 antibody, clone FA-11 can be used in flow cytometry to detect intracellular CD68, following permeabilization, and can detect surface macrosialin at low levels in resident mouse peritoneal macrophages which can be enhanced with thioglycollate stimulation.

## Product Information

**Host:** Mouse  
**Applications:** Flow Cytometry<sup>1</sup>, Immunofluorescence, Immunohistology – Frozen, Immunohistology - Paraffin<sup>2</sup>, Immunoprecipitation, Western Blotting<sup>3</sup>

<sup>1</sup> Membrane permeabilisation is required for this application.

<sup>2</sup>This product may require antigen retrieval using heat treatment prior to staining of paraffin sections. Either sodium citrate buffer or Tris/EDTA buffer may be used for this purpose. See Martin-Manso for details. Staining has also been achieved without antigen retrieval, see Lu for details.

<sup>3</sup> Non-reducing conditions recommended.

**Reactivity:** Mouse  
**Clonality:** Monoclonal  
**Clone:** FA-11  
**Conjugation:** Unconjugated  
**Isotype:** IgG  
**Formulation:** Phosphate buffered saline and 0.09% Sodium Azide. Carrier free  
**Purification:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

**Concentration:** 1 mg/mL

**Dilution Range:** Flow Cytometry 1/50 - 1/100

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

**Storage Instruction:** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended..

## Target

**Gene ID:** 12514

**Uniprot ID:** P31996

**Immunogen:** Purified Concanavalin A acceptor glycoprotein from P815 cell line.

**Specificity:** TMEM30A polyclonal antibody (Cell Cycle Control Protein 50a) binds to endogenous Cell Cycle Control Protein 50a at the amino acid region 110-190.

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Source Reference:

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References for CD68 antibody

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*Additional references available on request*

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