

Rat anti-Mouse CD68 Monoclonal Antibody | anti-CD68 antibody

Rat anti Mouse CD68:Amethyst Orange

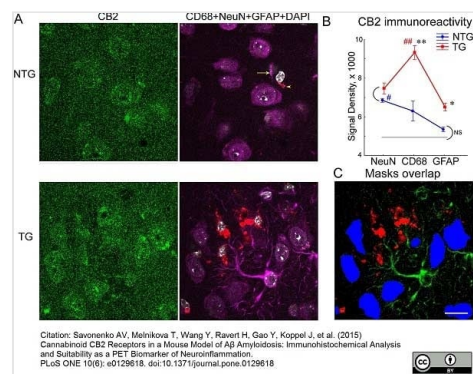
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12289	Rat	Mouse	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD68; Monoclonal Antibody; Rat anti Mouse CD68:Amethyst Orange; CD68 antibody | FA-11; anti-CD68 antibody

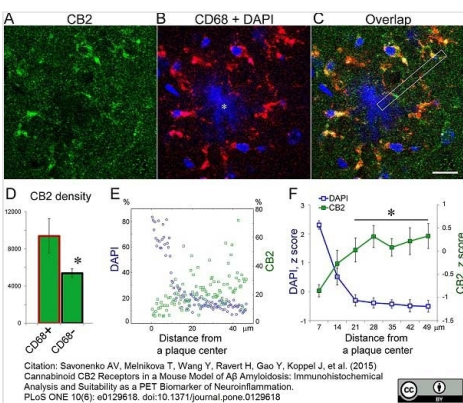
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	FA-11
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Phosphate buffered saline 0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin Purified IgG conjugated to Amethyst Orange - liquid
Concentration	IgG concentration 0.1mg/ml (varies by lot)
Applicable Applications for anti-CD68 antibody	FCM/FACS (Flow Cytometry)
Application Notes	FC/FACS: Neat to 1/10
Immunogen	Purified Concanavalin A acceptor glycoprotein from P815 cell line.
Conjugation	Amethyst Orange
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.



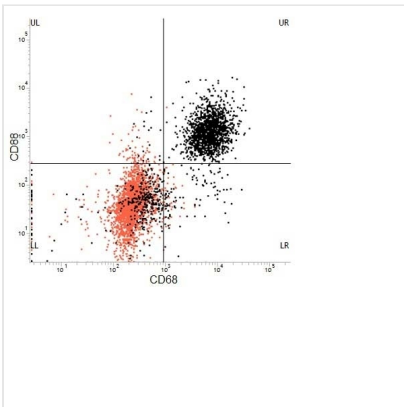
Application Data

Published customer image:Rat anti Mouse CD68 antibody, clone FA-11 used for the identification of microglia in mouse brain by immunofluorescence.Image caption:Comparison of CB2 immunoreactivity in neurons, activated microglia and astrocytes.



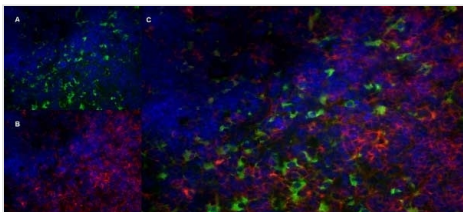
Application Data

Published customer image:Rat anti Mouse CD68 antibody, clone FA-11 used for the identification of microglia in mouse brain by immunofluorescence.Image caption:CB2 receptors are expressed in microglial cells and do not accumulate in



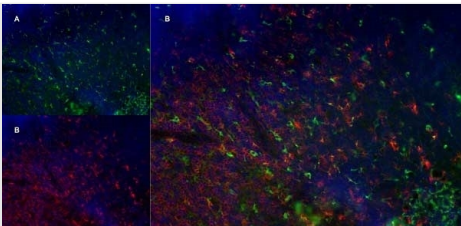
DB (Dot Blot)

Dot Blot showing FSC/SSC gated mouse peritoneal macrophages dual stained with CD68 at a 1/5 dilution and CD88 at a 1/5 dilution. Isotype control pair in red. Fc receptors were blocked by mouse Seroblock (BUF041B). Permeabilisat



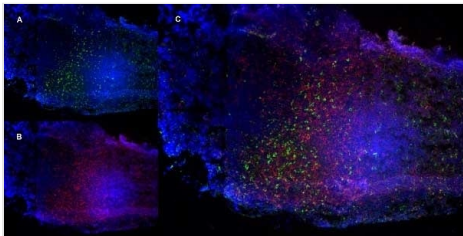
IF (Immunofluorescence)

Immunofluorescence staining of a mouse lymph node cryosection with Rat anti Mouse CD68 antibody, clone FA11, green in A and Rat anti Mouse CD8 antibody, clone YTS105.18, red in B. C is the merged image with nuclei counterstained blue u



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ADDITIONAL INFORMATION

Related Product Information for anti-CD68 antibody	Rat anti Mouse CD68 antibody, clone FA-11 recognizes mouse macrosialin, a heavily glycosylated transmembrane protein and murine homolog of human CD68, which is 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 in cancer studies 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 studies, 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	399215
NCBI GeneID	12514
UniProt Accession #	P31996; O54688; O70321; Q3S4A9; Q5F2A8; Q9DD15
Molecular Weight	33,844 Da
NCBI Official Full Name	Macrosialin
NCBI Official Synonym Full Names	CD68 antigen
NCBI Official Symbol	Cd68
NCBI Official Synonym Symbols	Lamp4; gp110; Scard1
NCBI Protein Information	macrosialin
UniProt Protein Name	Macrosialin
UniProt Gene Name	Cd68
UniProt Entry Name	CD68_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.