

CD68 recombinant antibody

Anti-CD68 [FA-11], Rabbit IgG, kappa

CATALOG # AAA72504	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay
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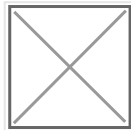
PRODUCT SYNONYMS

CD68; Monoclonal Recombinant Antibody; Anti-CD68 [FA-11]; Rabbit IgG; kappa; Macrosialin; FA/11; FA11 antigen; CD68 recombinant antibody

PRODUCT SPECIFICATIONS

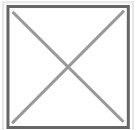
Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG kappa
Clone Number	FA-11
Specificity	This antibody is specific for murine CD68, known also as macrosialin (MS). CD68 is a 110 kDa, heavily O- and N-glycosylated type I integral membrane protein belonging to the sialomucin family and is closely related to the lysosomal/endosomal-associated membrane glycoproteins (LAMP). CD68 is predominantly expressed on the intracellular lysosomes of monocytes and macrophages and to a lesser extent by dendritic cells and peripheral blood granulocytes. Elevated expression of CD68 has been demonstrated on CD34+ cells in various human malignancies, including several acute myeloid leukemia studies.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for CD68 recombinant antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-CD68 antibody FA-11 (AAA72504). Mouse splenocytes were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG-chimeric version of FA-11 (AAA72504, blue line) at a dilution of 1:100 for 1 hour at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG Alexa Fluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



WB (Western Blot)

Western Blot using anti-CD68 antibody FA-11 (AAA72504). RAW-264.7 cells (A), mouse spleen (B) lysates (35 µg protein in RIPA buffer) were resolved on a 10% SDS-PAGE gel and transferred to a nitrocellulose membrane. The blot was probed with anti-CD68 antibody (1 µg/ml) and detected using a rabbit secondary antibody. A primary incubation of 1 hour was used and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for CD68 recombinant antibody	This antibody was raised by immunising rats (AO x Lou strain) with murine macrosialin (MS).
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References	Smith et al. Differential expression of murine macrophage surface glycoprotein antigens in intracellular membranes. J Cell Sci. 1987 Feb;87 (Pt 1):113-9. N/A3312248 Note on publication: Describes the original generation of this antibody and its subsequent applications in binding assays, immunoprecipitation and immunofluorescence to study the differential expression of murine macrophage surface glycoprotein antigens in intracellular membranes.
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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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd68-recombinant-antibody-clone-fa-11-immunoprecipitation-immunohistochemistry-flow-cytometry-elisa/72504>