

Mouse CD163 Antibody | anti-CD163 antibody

Anti-CD163 [2A10 (2A10/11)], Mouse IgG1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72276	Mouse	Pig (<i>Sus scrofa</i>)	ELISA, Immunofluorescence, Flow Cytometry, Functional Assay

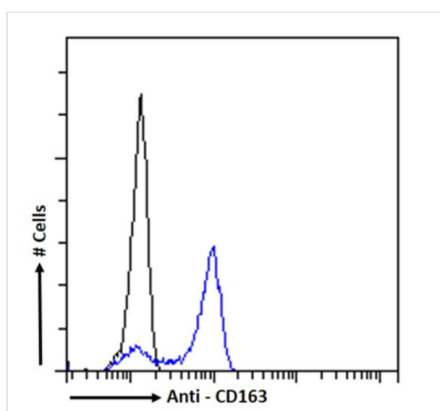
PRODUCT SYNONYMS

CD163; Anti-CD163 [2A10 (2A10/11)]; Mouse IgG1; M130; sCD163; Scavenger receptor cysteine-rich type 1 protein M130; anti-CD163 antibody

PRODUCT SPECIFICATIONS

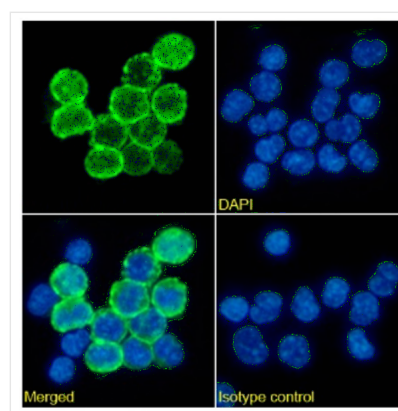
Host	Mouse
Reactivity	Pig (<i>Sus scrofa</i>)
Isotype	Mouse IgG1, Lambda
Clone Number	2A10 (2A10/11)
Specificity	This antibody recognizes and binds porcine CD163.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD163 antibody	ELISA, IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	The original antibody was generated by immunizing BALB/c mice with porcine alveolar macrophages.
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-CD163 antibody 2A10 (2A10/11) (AAA72276). Paraformaldehyde fixed pig peripheral blood monocytes permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of 2A10 (2A10/11) (AAA72276-23.0, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)

Immunofluorescence staining of pig peripheral blood monocytes with anti-CD163 (AAA72276) 2A10 (2A10/11) Immunofluorescence analysis of paraformaldehyde fixed pig peripheral blood monocytes on Shi-fix coverslips stained with the chimeric rabbit IgG version of 2A10 (2A10/11) (AAA72276-23.0) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72276-23.0, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD163 antibody	This antibody is recommended to be used as a tool in the study of porcine macrophage maturation and differentiation and for determining their heterogeneity both in normal and pathological conditions. This antibody can recognize porcine CD163 in a western blot assay and an immunoprecipitation assay (PMID: 9151393). 2A10 successfully binds PAM cells in a flow cytometric analysis (PMID:23785195). Porcine CD163 has also been analyzed as potential antigen targeting receptors using mouse IgG as surrogate antigens. MAbs to CD163 induced in vitro PBMC proliferation at concentrations 50-80 fold lower than the control mAb when using, as responder cells, cells from pigs immunized with mouse serum IgGs (PMID:21557980). It is also reported that porcine mAb 2A10 antigen is homologous to human CD163 and related to macrophage differentiation (PMID: 10227997). This antibody was also used to study the role of CD163 in the process of infection of porcine monocytes/macrophages by African swine fever virus infection (PMID: 14648288). This mAb was used in a sandwich enzyme-linked immunoassay (ELISA) to measure levels of sCD163 in porcine sera and biological fluids (Pérez et al, 2008).
Product Categories/Family for anti-CD163 antibody	immunology
References	Bullido et al. Monoclonal antibodies specific for porcine monocytes/macrophages: macrophage heterogeneity in the pig evidenced by the expression of surface antigens. Tissue Antigens (1997); 49(4):403-13. PMID:9151393

NCBI AND UNIPROT INFORMATION

NCBI GI #	47522778
NCBI GeneID	397031
NCBI Accession #	NP_999141.1
NCBI GenBank Nucleotide #	NM_213976.1
UniProt Accession #	Q2VL90; Q2VL89; Q8HY22
Molecular Weight	94,061 Da
NCBI Official Full Name	scavenger receptor cysteine-rich type 1 protein M130
NCBI Official Symbol	CD163
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130
UniProt Gene Name	CD163
UniProt Synonym Gene Names	M130; sCD163
UniProt Entry Name	C163A_PIG

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.