

Rabbit CD163 Antibody | anti-CD163 antibody

Anti-CD163 [2A10 (2A10/11)], Rabbit IgG

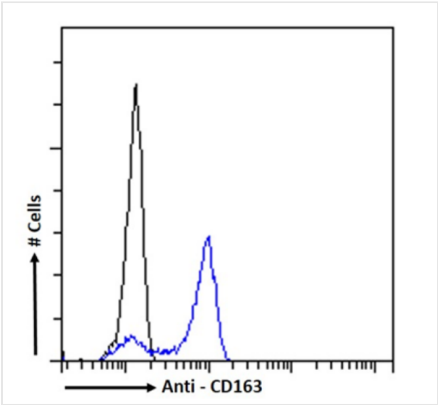
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72277	Rabbit	Pig (Sus scrofa)	ELISA, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

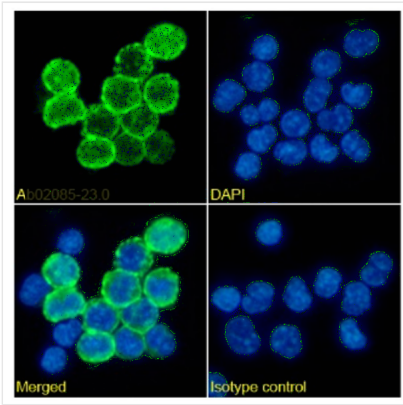
CD163; Anti-CD163 [2A10 (2A10/11)]; Rabbit IgG; M130; sCD163; Scavenger receptor cysteine-rich type 1 protein M130; anti-CD163 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Pig (Sus scrofa)
Isotype	Rabbit IgG, 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.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 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.



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD163 antibody 2A10 (2A10/11) (AAA72277). 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) (AAA72277-23.0, 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 (AAA72277) 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) (AAA72277-23.0) 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 AAA72277-23.0, 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.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-pig-sus-scrofa-antibody/cd163/72277>