

Anti-CD163 [2A10 (2A10/11)] Standard Size Ab02085-23.0

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.

Isotype and Format: Rabbit IgG, Lambda

Clone Number: 2A10 (2A10/11)

Alternative Name(s) of Target: M130; sCD163; Scavenger receptor cysteine-rich type 1 protein M130

UniProt Accession Number of Target Protein: Q2VL90

Published Application(s): ELISA, FC, IF

Published Species Reactivity: Pig (*Sus scrofa*)

Immunogen: The original antibody was generated by immunizing BALB/c mice with porcine alveolar macrophages.

Specificity: This antibody recognizes and binds porcine CD163.

Application Notes: 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).

Antibody First Published in: 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](#)

Note on publication: Describes the distribution of surface antigens on porcine monocytes and macrophages using monoclonal antibodies.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.