

Monoclonal Antibody to CD163 - FITC

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| Alternate names: | Hemoglobin scavenger receptor, M130, Macrophage marker, Scavenger receptor cysteine-rich type 1 protein M130 |
| Catalog No.: | AM05884FC-N |
| Quantity: | 0.1 mg |
| Concentration: | 0.1 mg/ml |
| Background: | CD163 is a 130 kDa membrane glycoprotein. It is a member of the scavenger receptor cysteine-rich superfamily and is a receptor for the hemoglobin-haptoglobin complex. CD163 is expressed exclusively on the cell surface of human monocytes and macrophages that evolve predominantly in the late phase of inflammation. CD163 is present on all CD14 positive monocytes, most CD64 positive monocytes, and shows higher expression on CD16 positive monocytes. CD163 is upregulated on mononuclear phagocytes by IL-10, IL-6 and dexamethasone. Lipopolysaccharide (LPS) and phorbol myristate acetate (PMA) both induce shedding of CD163 from the cell surface into plasma or cell supernatant. |
| Uniprot ID: | Q2VL90 |
| NCBI: | NP_999141.1 |
| GeneID: | 397031 |
| Host / Isotype: | Mouse / IgG1 |
| Clone: | 2A10/11 |
| Immunogen: | Porcine alveolar macrophages |
| Format: | State: Liquid purified Ig fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4, 0.09% Sodium Azide and 1% BSA Label: FITC – Fluorescein Isothiocyanate Isomer 1 |
| Applications: | Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to 1x10 ⁶ cells in 100 µl. Functional assays: Clone is reported to inhibit both African swine fever infection and viral particle binding to alveolar macrophages in a dose-dependent manner (6). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody recognises porcine CD163, a 120kD cell surface glycoprotein that is expressed on cells of the monocyte/macrophage lineage. The expression levels of CD163 vary during the course of macrophage differentiation. The highest levels of CD163 expression are found on tissue macrophages but bone marrow derived cells are CD163 negative. Species: Pig. Other species not tested. |

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.

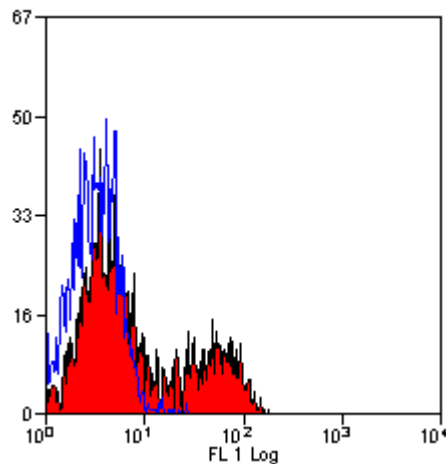
This product is photosensitive and should be protected from light.

Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf life: one year from despatch.

General References:

1. Sanchez, M. et al. (1999) The porcine 2A10 antigen is homologous to human CD163 and related to macrophage differentiation. *J. Immunol.* 162: 5230-5237.
2. Bullido, R. et al. (1997) Monoclonal antibodies specific for porcine monocyte/macrophages: macrophage heterogeneity in the pig evidenced by the expression of surface antigens. *Tissue Antigens* 49: 403-413.
3. Yang, P. et al. (2002) Immune cells in the porcine retina: Distribution, characterization and morphological features. *Invest. Ophthalmol. Vis. Sci.* 43: 1488-1492.
4. Gomez del Moral, M. et al. (1999) African swine fever virus infection induces tumor necrosis factor alpha production: implications in pathogenesis *J. Virol.* 73: 2173-2180.
5. Thacker, E. et al. (2001) Summary of workshop findings for porcine myelomonocytic markers. *Vet. Immunol. Immunopathol.* 80: 93-109.
6. Sanchez-Torres, C. et al. (2003) Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. *Arch. Virol.* 148: 2307-2323.

Pictures:

Staining of porcine peripheral blood mononuclear cells with FITC conjugated Mouse Anti Porcine CD163 antibody (AM05884FC-N)

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