



DATA SHEET

Datasheet: MCA1971F

Description: MOUSE ANTI PIG CD16:FITC

Specificity: CD16

Other names: FcRIII

Format: FITC

Product Type: Monoclonal Antibody

Clone: G7

Isotype: IgG1

Quantity: 0.1 mg

Product Details

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peerreviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species Pig

Product Form Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) liquid

Preparation Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide

Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.1 mg/ml

Immunogen Porcine peripheral blood leucocytes

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.

Specificity MCA1971F recognises the porcine homologue of human CD16 (Fc gamma RIII alpha). CD16 is a low affinity FC

gamma receptor expressed by polymorphonuclear cells (PMN), peripheral blood lymphocytes (PBL) and monocytes in pigs. Clone G7 has been reported to block PBL mediated antibodydependent cell cytotoxicity (ADCC) and partially inhibit PMNmediated ADCC.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. Method sheets are available on request

References 1. Dato, M. E. *et al* (1992) A triggering structure recognised by G7 monoclonal antibody on porcine lymphocytes and granulocytes. *Cell. Immunol.* 140: 468 477.

2. Wierda, W. G. *et al* (1993) Two distinct porcine natural killer lytic trigger molecules as PNKE/ G7 molecular complex. *Cell. Immunol.* 146: 270 283.

3. Halloran, P. J. *et al* (1994) Biochemical characterization of the porcine Fc gamma RIII alpha homologue G7. *Cell.Immunol.* 158: 400 413.

4. Devriendt, B. *et al.* (2010) Targeting of *Escherichia coli* F4 fimbriae to Fcgamma receptors enhances the maturation of porcine dendritic cells. *Vet Immunol Immunopathol.* 135: 18898.

5. Inman, C.F. *et al.* (2010) Dendritic cells interact with CD4 T cells in intestinal mucosa. *J Leukoc Biol.* Jun 15. [Epubahead of print]

6. Terzic, S. *et al.* (2002) Immunophenotyping of leukocyte subsets in peripheral blood and palatine tonsils of

prefattening pigs. *Vet Res Commun.* 26: 27383.

Storage Store at +4°C or at 20°C if preferred.

This product should be stored undiluted. Storage in frostfree freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch

Other formats and applications

This reagent is also available in a Purified, RPE, S/N format and is useful for Immunoprecipitation