

## Monoclonal Antibody to Granulocytes - FITC

**Alternate names:** Granulocyte cells

**Catalog No.:** AM05607FC-N

**Quantity:** 0.1 mg

**Concentration:** 0.1 mg/ml

**Background:** Granulocytes are a type of white blood cell filled with microscopic granules that are little sacs containing enzymes, compounds that digest microorganisms. They are part of the innate immune system and have somewhat nonspecific, broad-based activity. They do not respond exclusively to specific antigens, as do B-cells and T-cells. Neutrophils, eosinophils and basophils are all types of granulocytes. They are named by the staining features of their granules in the laboratory: Neutrophils have "neutral" subtle granules; Eosinophils have prominent granules that stain readily with the acid dye eosin; and Basophils have prominent granules that stain readily basic (non acidic) dyes.

**Host / Isotype:** Mouse / IgG1

**Clone:** 2B2

**Immunogen:** Porcine bone marrow haematopoietic cells (BMHC).

**Format:** **State:** Liquid purified IgG fraction  
**Purification:** Affinity Chromatography on Protein G  
**Buffer System:** Phosphate buffered saline pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer  
**Label:** FITC – Fluorescein Isothiocyanate Isomer 1

**Applications:** **Flow Cytometry:** Use 10 µl of neat antibody to label 1x10<sup>6</sup> cells in 100 µl  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** This antibody specifically recognises Porcine Eosinophils, Neutrophils and Basophils, acting as a reliable tool for their analysis and isolation, without contamination from other cells.  
Analysis of Porcine bone marrow and blood shows that the antigen recognised by clone 2B2 is selectively expressed on mature cells, and that it is likely to be a labile conformational epitope.  
Use of clone 2B2 in conjunction with clone 6D10 (product AM05606PU-N), allows for the discrimination and characterisation of different porcine granulocyte lineages and also their developmental stages: 6D10- 2B2- early myeloid precursors, 6D10+2B2- immature neutrophils, 6D10+2B2+ mature neutrophils and 6D10-2B2+ mature Eosinophils and Basophils.  
Clone 2B2 has been shown as suitable for use on cytopins. (1)

**Species Reactivity:** **Tested:** Pig.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:** 1. Pérez C, Revilla C, Alvarez B, Chamorro S, Correa C, Domenech N, et al. Phenotypic and functional characterization of porcine granulocyte developmental stages using two new markers. Dev Comp Immunol. 2007;31(3):296-306. Epub 2006 Jul 26. PubMed PMID: 16919332.

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