

## Antibodies

### Anti-Human CD235a (Glycophorin A) Antibody, Clone 2B7, FITC

Mouse monoclonal IgG1 antibody  
against human CD235a (glycophorin  
A), FITC-conjugated



Scientists Helping Scientists™ | [WWW.STEMCELL.COM](http://WWW.STEMCELL.COM)

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

[INFO@STEMCELL.COM](mailto:INFO@STEMCELL.COM) • [TECHSUPPORT@STEMCELL.COM](mailto:TECHSUPPORT@STEMCELL.COM)

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Catalog #60152FI

100 Tests 20 µL/test

## Product Description

The 2B7 antibody reacts with CD235a (Glycophorin A), a 10 kDa type I sialoglycoprotein present in the cell membrane of erythrocytes and erythroid precursors as a homodimer. Glycophorin A bears the antigenic determinants for the MN and Ss blood groups and has been proposed to provide a large mucin-like surface to erythrocytes that acts to minimize aggregation in circulation. Glycophorin A is first detectable on morphologically recognizable erythroid precursors just after the colony-forming unit erythroid (CFU-E) stage, and reaches its maximal expression at the late normoblast stage. Anti-glycophorin is useful in combination with anti-transferrin receptor (CD71) to identify distinct stages of erythroid differentiation since CD71 expression precedes Glycophorin A expression, but is lost during maturation of normoblasts into mature red blood cells (RBCs).

Target Antigen Name:	CD235 (Glycophorin)
Alternative Names:	Glycophorin A, GYPA, MN sialoglycoprotein, MNS blood group, PAS-2, Sialoglycoprotein alpha
Gene ID:	2993
Species Reactivity:	Human
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	2B7
Isotype:	IgG1, kappa
Immunogen:	Cell lysate containing partially lysed human red blood cells
Conjugate:	FITC

## Applications

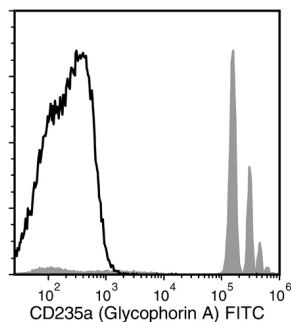
Verified:	FC
Reported:	ELISA, FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

Formulation:	Phosphate-buffered saline containing 0.1% bovine serum albumin and < 0.1% sodium azide
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> .
Directions for Use:	For flow cytometry the suggested use of this antibody is 20 µL per 1 x 10 <sup>6</sup> cells in 100 µL volume. This volume is usually appropriate for labeling samples containing mature RBCs, but may be too high for labeling immature RBCs in samples that have been depleted of mature RBCs. It is recommended that the antibody be titrated for optimal performance for each application.

## Data



Flow cytometry analysis of human whole blood labeled with Anti-Human CD235a (Glycophorin A) Antibody, Clone 2B7, FITC (filled histogram) or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, FITC (Catalog #60070FI; solid line histogram).

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

1. Loken MR et al. (1987) Flow cytometric analysis of human bone marrow: I. Normal erythroid development. *Blood* 69(1): 255–63.
2. Robinson J et al. (1981) Expression of cell-surface HLA-DR, HLA-ABC and glycophorin during erythroid differentiation. *Nature* 289(5793): 68–71.

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485. PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2016 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design and Scientists Helping Scientists are trademarks of STEMCELL Technologies Inc. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.