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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Technically
Speaking

CEDARLANE[®] 
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**FITC Conjugated Anti-Human Glycophorin A (CD235a)
Polyclonal Antibody**

CL8020F

Lot: 2031

DESCRIPTION:

Cedarlane's anti-human Glycophorin A (GpA) Polyclonal Antibody targets the human Glycophorin A protein. This 131 amino acid, 16 KDa, transmembrane sialoglycoprotein spans the membrane of erythrocytes once and exists predominantly as a homodimer. GpA presents its N terminus at the extracellular surface of the human red blood cell, has a single transmembrane domain and an internal cytoplasmic C terminus. GpA contributes to the expression of blood group antigen M and N specificities, which work to prevent red blood cell aggregation in circulation.

Studies show that GpA is expressed early on the cell surface during erythropoiesis as pluripotent stem cells are recruited to differentiate into erythrocytes. This makes GpA a useful marker for studying the developmental biology of hematopoietic progenitor cells.

This FITC conjugated polyclonal antibody recognizes various epitopes on the GpA protein. This antibody has been reported to work primarily in flow cytometry. The 23 residue hydrophobic transmembrane domain has been shown to mediate non-covalent dimerization of the protein under conditions of SDS page (and in other detergents). We also sell a purified version of this antibody (CL8020AP).

PRESENTATION:

100 µg FITC conjugated Ig buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

Store at 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Hybridoma Production:

Immunization:

Immunogen: Human Glycophorin A transmembrane protein

Donor: Rabbit serum

Continued Overleaf.....

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registered company.

In CANADA: Toll Free: 1-800-268-5058

4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

Specificity: Human Glycophorin A transmembrane protein

Ig Class: Rabbit IgG

Format: FITC conjugated Ig buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. (Purified from antisera via Protein G Chromatography)

Antibody Concentration: 0.1 mg/ml

TEST RESULTS:

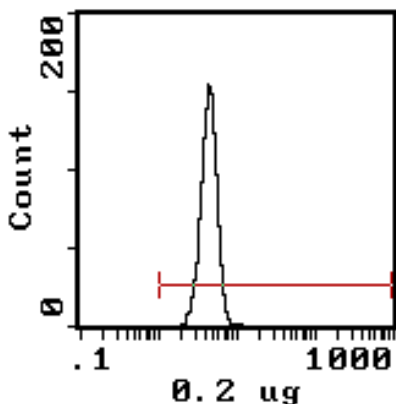
Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1x10⁶ cells per test

Antibody Concentration Used: 0.2 µg/10⁶ cells

Isotypic Control: FITC Rabbit IgG

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Human RBC's	99.2%



N.B. Appropriate control samples should always be included in any labelling studies.

* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

REFERENCES:

1. Hassoun H et al. 1998. Complete Deficiency of Glycophorin A in Red Blood Cells From Mice With Targeted Inactivation of the Band 3 (AE1) Gene. *Blood*, March 15, 91 (6):2146-2151.
2. Chasis J.A. and Mohandas N. 1992. Red Blood Cell Glycophorins. *Blood*. October 15, 80 (8):1869-1879.

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