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Technically
Speaking

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

**Purified Anti-Human Glycophorin A (CD235a)
Polyclonal Antibody**

CL8020AP

Lot: P2021

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 polyclonal antibody recognizes various epitopes on the GpA protein. This antibody has been reported to work in flow cytometry, Western Blotting and ELISA. 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 FITC conjugated version of this antibody (CL8020F).

PRESENTATION:

250 µg purified IgG buffered in PBS and 0.02% NaN₃.

For maximal recovery of contents, please quick-spin vial before opening.

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.

Continued Overleaf.....

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registered company.

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SPECIFICATIONS:

Hybridoma Production:

Immunization:

Immunogen: Human Glycophorin A transmembrane protein

Donor: Rabbit serum

Specificity: Human Glycophorin A transmembrane protein

Ig Class: Rabbit IgG

Format: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from antisera via Protein G Chromatography).

Antibody Concentration: 1.0 mg/ml

TEST RESULTS:

Western Blot:

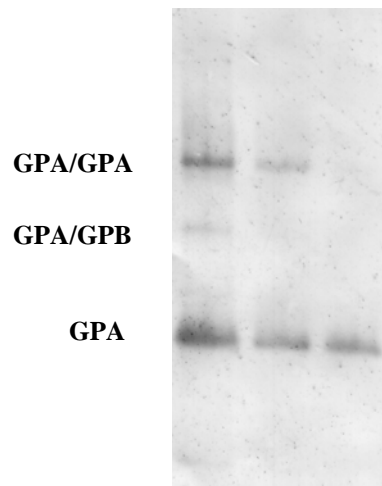


Figure 1. Western blot analysis using CL8020AP (Purified Anti-Glycophorin A pAb) at a dilution of 1:100 on human RBCs at various concentrations (GPA = Glycophorin A, GPB = Glycophorin B).

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 (AEI) 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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