

TECHNICAL DATA SHEET

CyFlow™ CD235a PE **Anti-Hu/Rt; Clone JC159**

REF CD373443

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD235a
Alternative Names	Glycophorin A, PAS-2, GPA, MN, MNS
Clone	JC159
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human Rat
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Membrane preparation from splenic hairy cell leukemia

Specificity

The mouse monoclonal antibody JC159 recognizes an epitope between amino acids 27 and 40 of the extracellular portion of CD235a (glycophorin A), a sialoglycoprotein expressed on early erythroblasts,

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

late erythroblasts, erythroblasts, mature erythrocytes and the cells of erythroid cell lines K562 and HEL. The antibody does not react with glycophorin B.

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD235a (GPA; Glycophorin A) is a transmembrane sialoglycoprotein expressed on erythrocytes and their precursors. Similarly to glycophorin B (GPB), these molecules provide the cells with a large mucin-like surface, which minimalizes aggregation between erythrocytes in the circulation. GPA is the carrier of blood group M and N specificities, while GPB accounts for S, s and U specificities. CD235a is a receptor of Hsa, an Streptococcus adhesin.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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