

TECHNICAL DATA SHEET

CyFlow™ CD235a Purified Anti-Hu/Rt; Clone JC159

REF CP951248

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	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human Rat
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
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,

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

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunohistochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 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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