

TECHNICAL DATA SHEET

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

REF AN126965

**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 | FITC |
| 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,

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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

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 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

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|------------------|---|
| 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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- Beck Z, Jagodzinski LL, Eller MA, Thelian D, Matyas GR, Kunz AN, Alving CR: Platelets and erythrocyte-bound platelets bind infectious HIV-1 in plasma of chronically infected patients. PLoS One. 2013 Nov 25; 8(11):e81002. < PMID: 24282562 >

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

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