

TECHNICAL DATA SHEET

CyFlow™ CD42a FITC Anti-Hu; Clone GR-P

REF CG796648

**For Research Use Only.
Not for use in diagnostic or therapeutic procedures.**

Specifications

Antigen	CD42a
Alternative Names	GPIX
Clone	GR-P
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Dog
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human acute lymphoblastic leukemia cells

Specificity

The mouse monoclonal antibody GR-P (GRP-P) recognizes CD42a antigen, a 22 kDa transmembrane protein constitutively expressed on megakaryocytes and platelets.

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

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

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

CD42a (GPIX; Glycoprotein 9) composes together with GPIb α, GPIb β and GPV the GPIb-IX-V receptor complex critical in the process of platelet-rich thrombus formation by tethering the platelet to a thrombogenic surface. CD42b binds to von Willebrand factor (VWF) exposed at a site of vascular injury, as well as to thrombin, coagulation factors XI and XII, high molecular weight kininogen, TSP-1, integrin Mac-1 and P-selectin. Defects in the gene encoding CD42a are a cause of Bernard-Soulier syndrome, also known as giant platelet disease. These patients have unusually large platelets and have a clinical bleeding tendency.

References

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- Harding SA, Din JN, Sarma J, Josephs DH, Fox KA, Newby DE: Promotion of proinflammatory interactions between platelets and monocytes by unfractionated heparin. Heart. 2006 Nov; 92(11):1635-8. < PMID: 16709700 >

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

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