

TECHNICAL DATA SHEET

CyFlow™ CD138 PE Anti-Hu; Clone B-A38

REF AU405277

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

Specifications

Antigen	CD138
Alternative Names	Syndecan-1, B-B4
Clone	B-A38
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	U266 human peripheral blood myeloma cell line

Specificity

The mouse monoclonal antibody B-A38 recognizes CD138 antigen, a 65-70 kDa heparan sulfate proteoglycan expressed mainly in the epidermis and plasma cells, but also in growth factor-stimulated lymphocytes.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (2 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

CD138 (syndecan 1) is a transmembrane proteoglycan that can bind a variety of cytokines and modulate their activity, as well as the activity of extracellular matrix components and influence many developmental processes. CD138 is expressed mainly in differentiating keratinocytes and is transiently upregulated in all layers of the epidermis upon tissue injury. It is also highly expressed on plasma cells and can be detected even on fibroblasts, vascular smooth muscle cells and endothelial cells. Up-regulation and down-regulation of CD138 on the cell surface often correlates with the gain of cancerous characteristics. Serum levels of the shedded soluble sCD138 are used as a prognostic factor of cancerogenesis.

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

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