Antibodies

Anti-Human CD138 (Syndecan-1) Antibody, Clone MI15, FITC

Mouse monoclonal IgG1 antibody against human, rhesus, cynomolgus CD138 (syndecan-1), FITC-conjugated

Catalog	#60003FI	100 Tests	5 µL/test
	#60003FI.1	25 Tests	5 µL/test

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Product Description

The MI15 antibody reacts with an extracellular epitope on CD138 (Syndecan-1), an ~85 - 95 kDa type 1 transmembrane glycoprotein expressed on the surface of pre-B cells, immature B cells, and normal and malignant plasma cells (but not mature circulating B cells), as well as on non-hematopoietic cells such as embryonic mesenchymal cells, endothelial, epithelial and neural cells. CD138 expression is used as a diagnostic marker for several types of tumors. CD138 is thought to act primarily as a receptor which modulates cell proliferation, cell migration and cell-matrix associations by linking the extracellular matrix to the cytoskeleton. Heparin sulfate and chondroitin sulfate moieties attached to CD138 associate with several proteins, including collagens, fibronectin, tenascin, thrombospondin and certain cytokines. The MI15 antibody recognizes a different epitope to that of the clone DL-101 anti-CD138 antibody but blocks binding of clone B-B4.

Target Antigen Name:	CD138 (Syndecan-1)
Alternative Names:	B-B4, SDC1, syndecan-1
Gene ID:	6382
Species Reactivity:	Human, Rhesus, Cynomolgus (IHC)
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	MI15
Isotype:	IgG1, kappa
Immunogen:	A combination of human-derived U266 and XG-1 myeloma cell lines
Conjugate:	FITC

Applications

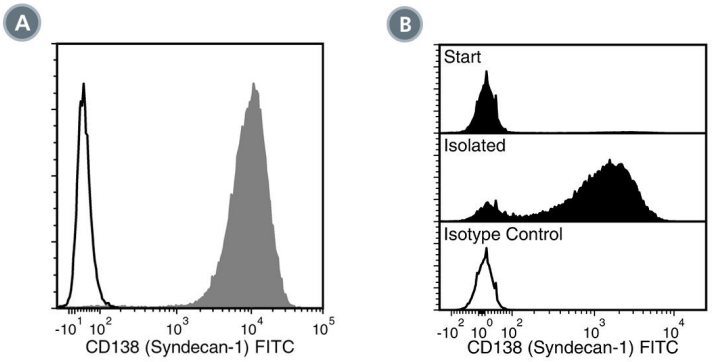
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ Human CD138 Positive Selection Kit (Catalog #18357) and EasySep™ Human Whole Blood CD138 Positive Selection Kit (Catalog #18387).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is 5 µL per 1 x 10^6 cells in 100 µL volume or per 100 µL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Flow cytometry analysis of human U266 myeloma cells labeled with Anti-Human CD138 (Syndecan-1) Antibody, Clone MI15, FITC (filled histogram) or a mouse IgG1, kappa FITC isotype control antibody (solid line histogram).
(B) Flow cytometry analysis of human U266 myeloma cells isolated with EasySep™ Human CD138 Positive Selection Kit from a mixed population of U266 cells and human peripheral blood mononuclear cells. Cells were labeled with Anti-Human CD138 (Syndecan-1) Antibody, Clone MI15, FITC. Histograms show labeling of the starting population containing ~5% U266 cells (Start) and the isolated cells (Isolated). Labeling of the start cells with Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, FITC (Catalog #60071FI) is shown (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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