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

Antibodies

Catalog #60003

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

100 µg 0.5 mg/mL

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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 that 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 than that of the clone DL-101 anti-CD138 antibody but blocks binding of clone B-B4. Peptide-binding ELISA data indicate that the epitope of the MI15 antibody is located in the extracellular domain of CD138 within the sequence Gly98 - Glu118 (GPKEGEAVVLPEVEPGLTARE).

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:	Unconjugated

Applications

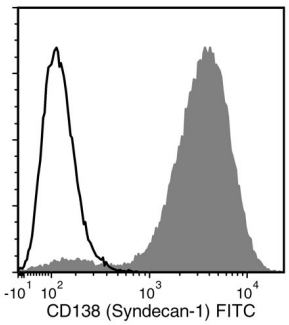
Verified:	FC
Reported:	FC, ICC, IF, IHC, IP, WB
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ Human CD138 Positive Selection Kit II (Catalog #17877) and EasySep™ Human Whole Blood and Bone Marrow CD138 Positive Selection Kit II (Catalog #17887).

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
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry, the suggested use of this antibody is ≤ 0.5 µg per 1 x 10^6 cells in 100 µL or per 100 µL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of human U266 myeloma cells labeled with Anti-Human CD138 (Syndecan-1) Antibody, Clone MI15, followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (Catalog #60138FI) (filled histogram) or a mouse IgG1, kappa isotype control antibody followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (open histogram).

Related Products

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

References

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