

APC anti-mouse CD138 (Syndecan-1) Antibody

Catalog# / Size	112507 / 25 µg 112508 / 100 µg
Clone	W20051E
Regulatory Status	RUO
Other Names	Syndecan-1, Sdc1
Isotype	Rat IgG2b, κ
Description	CD138, a member of the syndecan protein family, is a type I integral membrane heparin sulfate proteoglycan also known as Syndecan-1. Syndecan-1 participates in cell proliferation, cell migration, and cell matrix adhesion via interaction with collagen, fibronectin, and other soluble molecules (such as FGF-basic). It is expressed on normal and malignant plasma cells, pre-B cells, mesenchymal cells, epithelial cells, and endothelial cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse syndecan-1-transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)

Antigen Details

Structure	Transmembrane heparan sulfate proteoglycan; member of the syndecan proteoglycan family, 100-200 kD
Distribution	Malignant plasma cells, pre-B cells, mesenchymal cells, epithelial cells, and endothelial cells
Function	Cell adhesion, cell motility, cell migration, cell proliferation
Ligand/Receptor	Collagen, fibronectin
Cell Type	B cells
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Adhesion, Cell Biology, Cell Motility/Cytoskeleton/Structure, Immunology

Molecular Family

Adhesion Molecules, CD Molecules

Antigen References

1. Zong F, *et al.* 2011. *PLoS ONE*. 6:e14816.
2. Yamashita Y, *et al.* 1999. *J Immunol*. 162:5940-8.
3. Sanderson RD, *et al.* 1989. *Cell Regul*. 1:181-5.
4. Szatmari T, *et al.* 2013. *Front Oncol*. 13:310.

Gene ID

[20969](#)

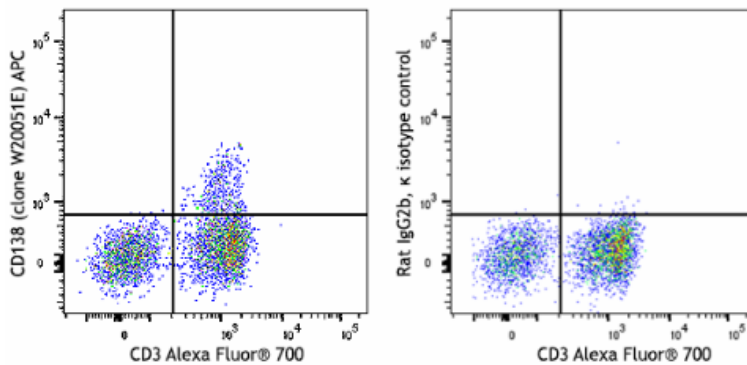
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD138 (Syndecan-1), PE anti-mouse CD138 (Syndecan-1), PE/Cyanine7 anti-mouse CD138 (Syndecan-1), APC anti-mouse CD138 (Syndecan-1) Antibody

Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse CD19 (clone 6D5) Alexa Fluor® 700 and anti-mouse CD138 (Syndecan-1) (clone W20051E) APC (left) or rat IgG2b, κ APC isotype control (right). Data shown was gated on the lymphoid population.

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