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Technical Data Sheet

Anti-Human CD138 (Syndecan-1) PE

Catalog Number :20411-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: DL-101

Format/Conjugate: PE

Concentration: 5 uL (0.5 ug)/test

Reactivity: Human

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The DL-101 monoclonal antibody specifically reacts with human CD138, a 85-92 kDA type I heparan sulfate proteoglycan. CD138 is known as Syndecan-1 and is expressed on pre-B cells, immature B cells, plasma cells, and malignant plasma cells, to the exclusion of mature circulating B cells. Syndecan-1 is also expressed on vascular smooth muscle, endothelial, neural, and embryonic mesenchymal cells. It is involved in cellular proliferation, cellular migration, and acts as an extracellular matrix receptor. Among the hematopoietic elements, CD138 is a useful marker for plasma cells.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

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2. Fitzgerald, M. L., Wang, Z., Park, P. W., Murphy, G., Bernfield, M. (2000). Shedding of syndecan-1 and-4 ectodomains is regulated by multiple signaling pathways and mediated by a TIMP-3;sensitive metalloproteinase.;The Journal of cell biology,;148(4), 811-824.

3. Itoua Maïga, R., Lemieux, J., Roy, A., Simard, C., Néron, S. (2014). Flow Cytometry Assessment of In Vitro Generated CD138< b>< sup>.;BioMed research international,;2014.

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