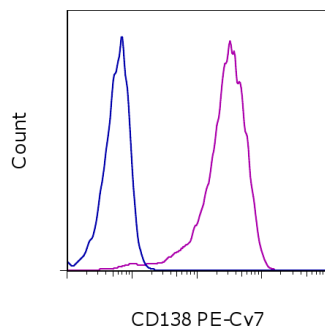


## Anti-Human CD138 (Syndecan-1) PE-Cyanine7

**Catalog Number:** 25-1389


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



Staining of the U266 cell line with Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (blue histogram) or Anti-Human CD138 (Syndecan-1) PE-Cyanine7 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor<sup>®</sup> 660, were used for analysis.

### Product Information

**Contents:** Anti-Human CD138 (Syndecan-1) PE-Cyanine7

 **Catalog Number:** 25-1389

**Clone:** DL-101

**Concentration:** 5  $\mu$ L (0.5  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** N/A

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



 **LOT**



### Description

The DL-101 monoclonal antibody reacts with human CD138, also known as syndecan-1. CD138 is a transmembrane protein containing chondroitin sulfate and heparin sulfate moieties responsible for binding to the extracellular matrix components. CD138 is not expressed by mature B cells but is present on pre-B cells and the finally differentiated plasma cells.

### Applications Reported

This DL-101 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This DL-101 antibody has been pre-titrated and tested by flow cytometric analysis of the U266 cell line. This can be used at 5  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### References

Fitzgerald ML, Wang Z, Park PW, Murphy G, Bernfield M. Shedding of Syndecan-1 and -4 Ectodomains Is Regulated by Multiple Signalling Pathways and Mediated by a TMIP-3 Metalloproteinase. J Cell Biol. 2000 Feb 21;148(4):811-24.

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Kainulainen V, Wang H, Schick C, Bernfield M. Syndecans, Heparan Sulfate Proteoglycans, Maintain the Proteolytic Balance of Wound Fluids. J Biol Chem. 1998 May 8;273(19):11563-9.

### **Related Products**

00-4222 Flow Cytometry Staining Buffer

25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

65-0864 Fixable Viability Dye eFluor® 660

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