

Anti-h CD138 13902 SPTN-5

Product overview

Catalog number	101017
Specificity	Antibody recognizes Syndecan-1, the heparan sulfate proteoglycan, a 65-70 kDa protein
Description	Monoclonal antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	Unspecified, storage at 2–8 °C
Subclass	Mouse IgG ₁
Analyte description	CD138, also known as Syndecan-1, is a transmembrane heparan sulfate proteoglycan expressed primarily on plasma cells, epithelial cells and certain activated B cells and myeloma cells. CD138 is the canonical surface marker for plasma cells. Soluble form of CD138 is expressed by epithelial cells in e.g. severe inflammation, sepsis, acute kidney injury, liver cirrhosis and inflammatory bowel disease.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/-10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.1–7.1
Purity	≥ 95 %

Kinetic parameters

Association rate constant	2.9×10^5 1/Ms
Dissociation rate constant	4.6×10^{-4} 1/s
Affinity constant	$K_A = 6.2 \times 10^8$ 1/M; $K_D = 2.2 \times 10^{-9}$ M (= 2.2 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Syndecan-1 His-tag (aa23-254), Acro Biosystems (Cat SY1-H5225)



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Cross-reactivities N/D

Epitope N/D

Pair recommendations

		DETECTION	
		13901	13902
CAPTURE	13901	+	+
	13902	+	+

Following pairs are especially recommended for the below mentioned assays:

ELISA: 13901 (capture) – 13902 (detection)

LF: 13902 (membrane) – 13901 (particles), and 13901 – 13902

CLIA: 13902 (magnetic particles) – 13901 (detection)

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested ELISA, LF, CLIA

Antigens tested N/D

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK. Charge alteration.
+45 °C, 7 days	OK. Charge alteration.

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous This product was previously available with Clone code B-D30. It has been produced using the same original mouse monoclonal hybridoma cell line.

References -



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