

## Product specifications

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Name	Anti-h ST2 10203 SPTN-5
Specificity	Antibody recognizes human soluble ST2
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	100682
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	12 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
Analyte description	ST2 is an interleukin-1 family receptor expressed in the heart. ST2 protein has two isoforms: a soluble (sST2) and membrane-bound form. Patients with heart failure and elevated ST2 protein levels in the blood are at risk for heart failure progression.

## Parameters tested on each lot

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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	5.7–6.6
Purity	≥ 95 %

## Kinetic parameters

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Association rate constant	$5.0 \times 10^5$ 1/Ms
Dissociation rate constant	$1.6 \times 10^{-4}$ 1/s
Affinity constant	$K_A = 3.2 \times 10^9$ 1/M; $K_D = 4.7 \times 10^{-10}$ M (= 0.47 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Human ST2, Acro Biosystems IL1-H5229

Cross-reactivities N/D

Epitope Recognizes both free sST2 and sST2 bound to IL-33

Pair recommendations

		DETECTION						
		10201	10202	10203	10204	10205	10206	10207
CAPTURE	10201	-	-	-	+	+	+	+
	10202	-	-	-	+	+	+	+
	10203	-	-	-	+	+	+	+
	10204	+	+	+	-	+	+	-
	10205	+	+	+	+	-	-	-
	10206	+	+	+	+	-	-	-
	10207	+	+	+	-	-	-	-

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 FIA, CLIA

Antigens tested Recombinant ST2 antigen, Medix Biochemica, 710020

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

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 -

References -

