

## Product specifications

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|                         |   |
|-------------------------|---|
| Name                    | Anti-h ST2 10205 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            | 100684  |
| 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  | 36 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           | 5.6–6.3  |
| Purity                | ≥ 95 %   |

## Kinetic parameters

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|                            |  |
|----------------------------|--|
| Association rate constant  | $2.8 \times 10^5$ 1/Ms   |
| Dissociation rate constant | $4.8 \times 10^{-4}$ 1/s   |
| Affinity constant          | $K_A = 5.8 \times 10^8$ 1/M; $K_D = 2.0 \times 10^{-9}$ M (= 2.0 nM) |
| Determination method       | BLI (Octet RED96e)   |
| Determination antigen      | Human ST2, Acro Biosystems IL1-H5229                                 |

Cross-reactivities N/D

Epitope Recognizes free sST2

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 -

