

## PRODUCT SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| <b>Name</b>                    | Anti-h NGAL 4202 SPTN-5  |
| <b>Specificity</b>             | Antibody recognizes human neutrophil gelatinase-associated lipocalin (NGAL)  |
| <b>Description</b>             | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components   |
| <b>Product code</b>            | 100579   |
| <b>Product buffer solution</b> | 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative   |
| <b>Shelf life and storage</b>  | 24 months from manufacturing at 2-8 °C   |
| <b>Analyte description</b>     | Neutrophil gelatinase-associated lipocalin (NGAL) is a small glycoprotein expressed in the bone marrow, epithelial tissues associated with antimicrobial defense, and in the distal tubules and collecting duct of the kidney. Elevated levels of blood and urine NGAL are associated with acute or chronic renal failure. |

## PARAMETERS TESTED ON EACH LOT

|                              |  |
|------------------------------|--|
| <b>Product appearance</b>    | Liquid, may turn slightly opaque during storage          |
| <b>Product concentration</b> | 5.0 mg/ml (+/- 10 %)                                     |
| <b>Immunoreactivity</b>      | 80-120 % compared to the reference sample in an FIA test |
| <b>IEF Profile</b>           | 5.8 – 7.0  |
| <b>Purity</b>                | ≥ 95 %   |

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

|                                   |  |
|-----------------------------------|--|
| <b>Subclass</b>                   | IgG <sub>1</sub>   |
| <b>Association rate constant</b>  | $6.4 \times 10^5$ 1/Ms   |
| <b>Dissociation rate constant</b> | $4.0 \times 10^{-4}$ 1/s   |
| <b>Affinity constant</b>          | $K_A = 1.6 \times 10^9$ 1/M; $K_D = 6.3 \times 10^{-10}$ M (= 0.63 nM) |
| <b>Determination method</b>       | SPR analysis (ProteOn XPR36)   |
| <b>Determination antigen</b>      | NGAL, Medix Biochemica (Cat 610012)                                    |

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**Cross-reactivities** N/D

**Epitope** N/D

|                             |                          |                           |
|-----------------------------|--------------------------|---------------------------|
| <b>Pair recommendations</b> | <b>CAPTURE ANTIBODY</b>  | <b>DETECTION ANTIBODY</b> |
|                             | 4202<br>4203, 4204, 4205 | 4203, 4204, 4205<br>4202  |

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.

|                          |                          |               |
|--------------------------|--------------------------|---------------|
| <b>Product stability</b> | <b>TEMPERATURE, TIME</b> | <b>RESULT</b> |
|                          | -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** Antibody recognizes NGAL antigen product no. 610012.

**References** -

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