

## Anti-h GDF-15 4904 SPTN-5

### Product overview

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|                                |   |
|--------------------------------|---|
| <b>Catalog number</b>          | 100837  |
| <b>Specificity</b>             | Antibody recognizes human growth differentiation factor 15 (GDF-15)   |
| <b>Description</b>             | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.   |
| <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>Subclass</b>                | IgG <sub>1</sub>  |
| <b>Analyte description</b>     | Growth differentiation factor 15 (GDF-15) is a stress responsive cytokine having elevated expression levels during tissue injury and inflammatory states. Increased GDF-15 levels are associated with cardiovascular diseases such as heart failure and atherosclerosis, and also with chronic kidney disease and cancer. |

### Parameters tested on each lot

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|                              |  |
|------------------------------|--|
| <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>           | 6.3–7.2  |
| <b>Purity</b>                | ≥ 95 %   |

### Kinetic parameters

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|                                   |  |
|-----------------------------------|--|
| <b>Association rate constant</b>  | $5.0 \times 10^5$ 1/Ms   |
| <b>Dissociation rate constant</b> | $1.3 \times 10^{-4}$ 1/s   |
| <b>Affinity constant</b>          | $K_A = 3.7 \times 10^9$ 1/M<br>$K_D = 1.4 \times 10^{-9}$ M (= 1.4 nM) |
| <b>Determination method</b>       | BLI (Octet RED96e)   |
| <b>Determination antigen</b>      | Recombinant Human GDF-15, R&D Systems (Cat 8146-GD/CF)                 |

**Legal disclaimer**

**Cross-reactivities** Does not recognize GDF-9, GDF-11, TNF-beta, TGF-beta or CRP

**Epitope** Not Determined (N/D)

**Pair recommendations**

|         |      | DETECTION |      |      |      |      |
|---------|------|-----------|------|------|------|------|
|         |      | 4901      | 4902 | 4903 | 4904 | 4905 |
| CAPTURE | 4901 | -         | -    | +    | +    | +    |
|         | 4902 | -         | -    | +    | +    | +    |
|         | 4903 | +         | +    | -    | -    | -    |
|         | 4904 | +         | +    | -    | -    | -    |
|         | 4905 | +         | +    | -    | -    | -    |

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** N/D

| Product stability | 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** -



**Legal disclaimer**