

PRODUCT SPECIFICATIONS

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| Name | Anti-h FABP3 2303 SPTN-5 |
| Specificity | Antibody recognizes human fatty acid binding protein 3 (FABP3) |
| Description | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components |
| Product code | 100293 |
| Product buffer solution | 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative |
| Shelf life and storage | 24 months from manufacturing at 2-8 °C |
| Analyte description | The fatty-acid binding proteins (FABPs) are a family of carrier proteins for fatty acids and other lipophilic substances. Heart-type fatty acid-binding protein (H-FABP= FABP3) is a low molecular weight cytoplasmic protein present abundantly in the myocardium. When the myocardium is injured, as in the case of myocardial infarction, low molecular weight cytoplasmic proteins including H-FABP are released into the circulation and H-FABP can be used as a biochemical diagnostic marker in the early phase of acute myocardial infarction (AMI). |

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 - 7.3 |
| Purity | ≥ 95 % |

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

| | |
|-----------------------------------|--|
| Subclass | IgG ₁ |
| Association rate constant | 4.0×10^5 1/Ms |
| Dissociation rate constant | 1.6×10^{-3} 1/s |
| Affinity constant | $K_A = 2.5 \times 10^8$ 1/M; $K_D = 4.1 \times 10^{-9}$ M (= 4.1 nM) |
| Determination method | SPR analysis (ProteOn XPR36) |
| Determination antigen | FABP3, Lee Biosolutions (Cat 276-10, Lot L84659-A) |

Legal disclaimer

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Cross-reactivities No cross-reactivity against FABP1 or FABP4, others not tested.

Epitope Not Determined (N/D)

| | | |
|-----------------------------|-------------------------|---------------------------|
| Pair recommendations | CAPTURE ANTIBODY | DETECTION ANTIBODY |
| | 2302, 2303 | 2304 |
| | 2304 | 2302, 2303 |

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.

| | | |
|--------------------------|--------------------------|---------------|
| Product stability | TEMPERATURE, TIME | RESULT |
| | -70 °C, 21 days | OK |
| | -20 °C, 21 days | OK |
| | +4 °C, 21 days | OK |
| | +35 °C, 7 days | OK |
| | +35 °C, 21 days | OK |
| | +45 °C, 3 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 -