

## PRODUCT SPECIFICATIONS

Date: 2015-05-15

<b>PRODUCT NAME</b>	:	Anti-h FABP3 2302 SPTN-5
<b>PRODUCT SPECIFICITY</b>	:	Human Fatty Acid Binding Protein 3 (FABP3)
<b>PRODUCT CODE</b>	:	100292
<b>PRODUCT BUFFER</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>	:	18 months at 2-8 °C
<b>ANALYTE DESCRIPTION</b>	:	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 FROM EACH LOT

<b>PRODUCT APPEARANCE</b>	:	Clear liquid, may turn opaque during storage
<b>PRODUCT CONCENTRATION</b>	:	5.0 mg/ml (+/- 10 %)
<b>PRODUCT ACTIVITY</b>	:	80 – 120 % compared to reference in an IFMA-test
<b>IEF-RANGE</b>	:	7.2 – 7.6
<b>PURITY</b>	:	≥ 95 %

### PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

<b>CLASS AND SUBCLASS</b>	:	IgG <sub>1</sub>
<b>ASSOCIATION CONSTANT</b>	:	2.9 x 10 <sup>5</sup> 1/Ms
<b>DISSOCIATION CONSTANT</b>	:	4.5 x 10 <sup>-3</sup> 1/s
<b>AFFINITY CONSTANT</b>	:	KA = 6.5 x 10 <sup>7</sup> 1/M; KD = 1.6 x 10 <sup>-8</sup> M (= 16 nM)
<b>DETERMINATION METHOD</b>	:	SPR analysis, ProteOn XPR36
<b>ANTIGEN</b>	:	FABP3, Lee Biosolutions, cat.no 276-10, lot#L84659-A
<b>CROSS-REACTIVITIES</b>	:	No cross-reactivity against FABP1 or FABP4, others not tested.

**EPITOPE** : N/D

**EPITOPE GROUP** : -

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

<b>PAIR RECOMMENDATIONS</b>	<b>SOLID</b>	<b>LABEL</b>
	2302, 2303	2304
	2304	2302, 2303

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

<b>PRODUCT STABILITY</b>	<b>TEMPERATURE, DAYS</b>	<b>RESULT</b>
Please note that the shelf life given on page one is based on real time stability testing at +2-8 °C in the product buffer.	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+25 °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. The maximum duration of the test is 21 days, except for the +45 °C only 7 days.

<b>pH, 14 DAYS, +4 °C</b>	<b>RESULT</b>
5.0	OK
6.0	OK
7.0	OK
8.0	OK

Stability testing is performed to see whether pH affects the antigen binding, charge or composition of the antibody during 14 days at +4 °C.

**MISCELLANEOUS** : -

**REFERENCES** : -

### Legal disclaimer

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