

Product specifications

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
Subclass	IgG ₁
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 %

Kinetic parameters

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)

Cross-reactivities Does not recognize FABP1 or FABP4.

Epitope Not Determined (N/D)

Pair recommendations

		DETECTION		
		2302	2303	2304
CAPTURE	2302	-	-	+
	2303	-	-	+
	2304	+	+	-

Following pairs are especially recommended for the below mentioned assays:
IT: 2302 – 2304

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, LF, IT

Antigens tested Recombinant FABP3 antigen, Medix Biochemica 610043 and native FABP3 antigen Lee Biosolutions 276-10 and 276-12.

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 -

