

Fapon cTnI

As one of the most sensitive and specific markers of cardiomyocyte injury, cardiac troponin I (cTnI) has been used as an important indicator for determining cardiomyocyte injury cases of acute myocardial infarction and myocarditis.

Through precise antibody screening, Fapon developed novel cTnI pairing materials for immunofluorescence and colloidal gold platforms with more advanced performances in precision and sensitivity.



Product Features:

Wide Detection Range

Lower Detection Limit

High Specificity

High Correlation with International Leading cTnI Brands

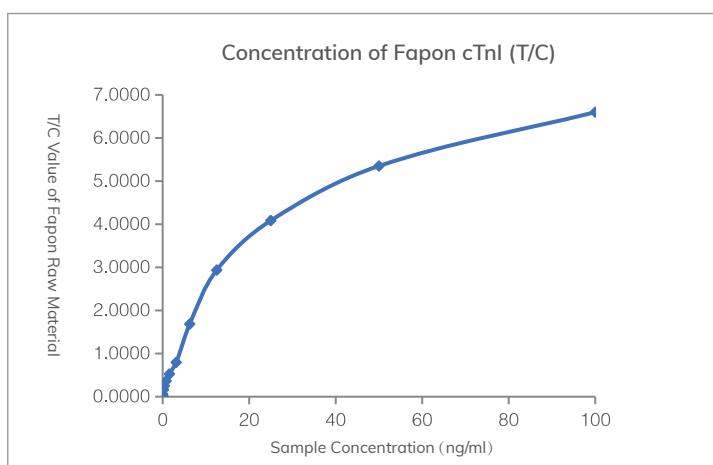
1. Pairing Recommendation

Catalog No.	Recommended Usage	Applicable Platform	
		Colloidal Gold	Immunofluorescence
BRNCTNIN113	Labeling		
BRNCTNIN102 +BRNCTNIN105	Coating	✓	✓

2. cTnI for Immunofluorescent Platform

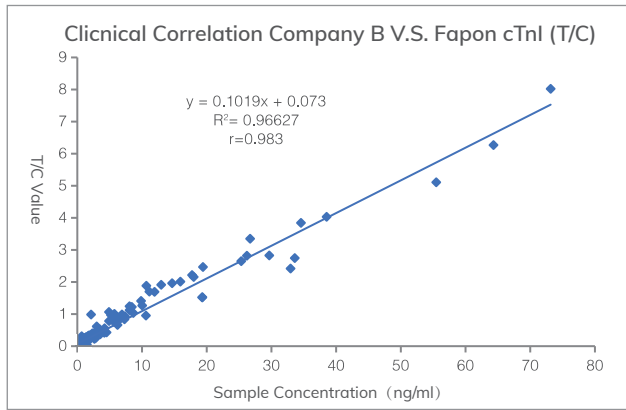
1) Detection Range:

QC Material Concentration (ng/ml)	T/C Value
0	0.0626
0.098	0.114
0.195	0.1630
0.39	0.2523
0.78	0.3632
1.56	0.5251
3.125	0.7959
6.25	1.6847
12.5	2.9367
25	4.0857
50	5.3509
100	6.5992



Conclusion: The detection range is 0.1-100 ng/ml with NC95 membrane, the minimum detection limit is 0.1 ng/ml, no hook effect appears at 100 ng/ml.

2) Clinical Relevance



Conclusion: 173 samples of fixed values from Company B were tested. The correlation between Fapon cTnl and B company's samples (including negative and positive samples) is $R^2=0.966$, and the conformity rate is 98.3%.

3. cTnl for Colloidal Gold Platform

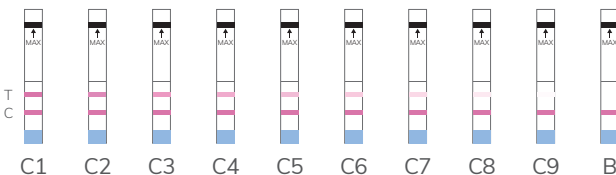
1) 46 positive samples of fixed values from Company B (cut off=0.04 ng/ml) were tested and 45 samples were found positive by Fapon cTnl. The positive detection rate is 97.83% and the minimum detection limit is 0.3 ng/ml.

Sample No.	Fixed Value Samples of Company B (ng/ml)	Colour Intensity of Fapon cTnl
1	0.11	B+
2	0.299	C9+
3	0.441	C8
4	0.489	C7-
5	0.478	C7-
6	0.598	C6
7	0.575	C7
8	0.575	C7
9	0.54	C8
10	0.507	C7
11	0.608	C7
12	0.788	C7

Sample No.	Fixed Value Samples of Company B (ng/ml)	Colour Intensity of Fapon cTnl
13	0.772	C7
14	3.011	C5
15	3.785	C5
16	3.922	C3
17	2.67	C4
18	1.461	C5
19	1.054	C5
20	1.646	C5
21	0.919	C7
22	0.983	C6
23	13.984	C1
24	13.481	C2
25	12.332	C2-
26	9.759	C2
27	8.797	C2
28	7.428	C3
29	6.974	C3
30	5.372	C5
31	5.71	C4
32	4.753	C3-
33	25.603	C1
34	24.272	C1
35	20.854	C1-
36	19.483	C2
37	16.048	C1
38	16.219	C1
39	15.758	C1
40	15.84	C1
41	15.028	C1
42	25.414	C1
43	27.452	C1
44	28.8	C1
45	29.849	C1
46	29.277	C1

2) Colour Intensity: the greater the number, the lower the activity.

3) Specificity: 500 negative samples were detected and a specificity of 98.24% was achieved.



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