CATALOGUE #: **4T21 / 4T21cc**

PRODUCT NAME: **Monoclonal mouse anti-cardiac troponin I (cTnI)**

MAbs *in vitro* (Cat.# 4T21cc):

Y101, M18cc, 1017cc, 1039cc, 4C2cc, M155cc, 19C7cc, 560cc, 16A11cc, 16A12cc, 8E10cc, MF4cc
Mouse monoclonal antibody produced in bioreactor. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

MAbs *in vivo* (Cat.# 4T21):

P4-14G5, 916, 909, 801, 810, 3C7, 228, 820, 10F4, 247, 17F3, 84, M46, 625, 458, 596, 267, C5, p45-10
Mouse monoclonal antibody produced in ascites. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

Immunogen:

Free human cTnI for 16A11cc, 16A12cc, 19C7cc, 4C2cc, 8E10cc, M155cc, M18cc, MF4cc, 10F4, 17F3, 458, 84, C5, M46

Native human cTn complex for 560cc, 228, 247, 625

Native human cTn complex and human cTnI peptides for 810, 820

Native human cTn complex and artificial human cTn complex for 801

Free human cTnI and native human cTn complex 267, 3C7, 596,

Free human cTnI and human cTnI peptides for 1017cc, 1039cc, 909, 916

Free human cTnI, native human cTn complex and human cTnI peptides for Y101

Human cTnI peptides for P4-14G5, p45-10

Specificity:

Epitope specificity:

MAb	Epitope (a.a.r.)
P4-14G5	1 – 15
916	13 – 22
909	18 – 22
M18cc	18 – 28
801	18 – 35
810	22 – 31
1017cc, 1039cc	22 – 40
4C2cc	23 – 29
3C7	25 – 40
M155cc, 228, 820	26 – 35
10F4	34 – 37
19C7cc	41 – 49
247	65 – 74
560cc	83 – 93
Y101	83 – 100
16A11cc, 16A12cc, 8E10cc	86 – 90
17F3	87 – 90
84	117 – 126
M46	130 – 145
625, 458, 596, 267	169 – 178
C5	186 – 192
MF4cc	190 – 196
p45-10	195 – 209

None of the MAbs (except M46, 267, 596 and C5) have cross-reaction with skeletal muscle TnI. Cross-reactivity with skeletal TnI is less than 10% for M46, 267 and 596, and more than 50% for C5. 247 reacts only with free cTnI.

Hytest

SCIENTIFIC EXCELLENCE FOR IVD

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PRODUCT NAME: **Monoclonal mouse anti-cardiac troponin I (cTnI)**

MAb isotypes:

IgG1 for Y101, M18cc, 1017cc, 1039cc, M155cc, 560cc, 16A11cc, 16A12cc, 8E10cc, MF4cc, P4-14G5, 909, 810, 3C7, 228, 820, 247, 17F3, 84, M46, 625, 596, p45-10

IgG2a for 4C2cc, 10F4, 267

IgG2b for 19C7cc, C5

IgG3 for 916, 801

IgM for 458

Applications:

cTnI immunoassay; cTnI immunoprecipitation, immunohistochemistry, immunoaffinity purification.

MAbs work in Western blotting. For better sensitivity in Western blotting we recommend using 19C7cc, 16A11cc and MF4cc.

Pair recommendations for quantitative cTnI sandwich immunoassays:

Assay type	Capture	Detection
1 + 1	19C7cc	16A11cc
	19C7cc	560cc
	625	19C7cc
	560cc	458
	4C2cc	19C7cc
	625	1017cc
	625	1039cc
2 + 1	19C7cc + MF4cc	7B9cc (specific to TnC, Cat.# 4T27cc)
2 + 2	916 + 560cc	19C7cc + MF4cc
	801 + 560cc	19C7cc + MF4cc
	909 + 560cc	19C7cc + MF4cc
	M18 + 560cc	19C7cc + MF4cc

801, 810, 820, 909 and 916 work well as capture MAbs with 19C7cc as detection MAb.

Purification: Protein A chromatography

Presentation: PBS, pH 7.4, 0.09 % sodium azide (NaN_3)

Storage: +4 °C (+2 … +8 °C allowed)

Material safety note: This product is sold **for research or further manufacturing use only**. Standard Laboratory Practices should be followed when handling this material.

Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.

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