



DataSheet

CATALOGUE #: 4T21

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

MAbs: 8E10, C5, 4C2, 19C7, 16A11, 3C7, P4-14G5, M18, M155, M46, MF4, 16A12, P4-9F6, 228, 625, 458, 267, 596, 84, 415, 581, 10F4, 247, 560, 17F3, p45-10, 916, 909, 820, 810, 801

Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with free human cTnI, native human cTn complex, or human cTnI peptides.

Specificity:

Epitope specificity:

MAb	Epitope (a.a.r.)
P4-14G5	1 – 15
P4-9F6	1 – 15
916	13 – 22
909	18 – 22
M18	18 – 28
801	18 – 35
810	22 – 31
4C2	23 – 29
3C7	25 – 40
228	26 – 35
M155	26 – 35
820	26 – 35
10F4	34 – 37
19C7	41 – 49
247	65 – 74
560	83 – 93
16A12	86 – 90
8E10	86 – 90
16A11	86 – 90
17F3	87 – 90
415	104 – 119
84	117 – 126
M46	130 – 145
581	143 – 152
625	169 – 178
458	169 – 178
596	169 – 178
267	169 – 178
C5	186 – 192
MF4	190 – 196
p45-10	195 – 209

MAbs with other epitope specificity are available on request.

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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 MAbs M46, 267 and 596, and more than 50% for MAb C5. MAb 247 reacts only with free cTnI.

Additional comprehensive information about cross-reactivity with different forms of antigens (phosphorylated, complexed etc.) and antigens from different species (rat, mouse, canine, bovine and porcine) is available.

MAb isotypes: **IgG1** for MAbs 8E10, 16A11, 3C7, P4-14G5, M18, M155, M46, MF4, P4-9F6, 228, 625, 560, 596, 16A12, 415, 84, 581, 247, 17F3, p45-10, 909, 810, 820

IgG2a for MAbs 4C2, 267, 10F4

IgG2b for MAbs 19C7, C5

IgG3 for MAbs 916, 801

IgM for MAb 458

Applications: cTnI immunoassay; cTnI immunoprecipitation, immunohistochemistry, immunoaffinity purification.

All MAbs work in Western blotting. For better sensitivity in Western blotting we recommend using MAbs 19C7, 16A11 and MF4.

Recommended pairs for quantitative sandwich immunoassay (capture-detection):
19C7 – 16A11, 19C7 – 560, 625 – 19C7, 560 – 458, 4C2 – 19C7

MAbs 801, 810, 820, 909 and 916 work well as capture MAbs with MAb 19C7 as detection MAb.

Antibody combinations for quantitative sandwich immunoassay:

19C7 + MF4 (mixture for coating) – 7B9 (anti-TnC MAb; Cat. # 4T27)

916 + 560 (mixture for coating) – 19C7 + MF4 (mixture for detection)

801 + 560 (mixture for coating) – 19C7 + MF4 (mixture for detection)

909 + 560 (mixture for coating) – 19C7 + MF4 (mixture for detection)

M18 + 560 (mixture for coating) – 19C7 + MF4 (mixture for detection)

Purification: Chromatography on protein A Sepharose

Presentation: PBS, pH 7.4, 0.09 % sodium azide (NaN₃)

Storage: +4 °C (+2 ... +8 °C allowed)

Material safety note: This product is sold **for research 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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