

CATALOGUE #: RC4T21

PRODUCT NAME: Recombinant anti-cardiac troponin I (cTnI)

Recombinant MAb:

RecChim16A11, RecChim19C7, RC560

Recombinant chimeric antibody expressed in a mammalian cell line. Composed of original wild type variable domains of mouse derived MAb and human IgG1 constant domains.

Y501, Y502, Y503, Y504, Y505

Recombinant chimeric antibody expressed in a mammalian cell line. Composed of original wild type variable domains of rat derived MAb and human IgG1 constant domains.

Y601, Y603

Recombinant chimeric antibody expressed in a mammalian cell line. Composed of original wild type variable domains of porcine derived MAb and human IgG1 constant domains.

Y302, Y303, Y306, Y309, RecR1, RecR23, RecR33, RecR85

Recombinant monoclonal antibody expressed in a mammalian cell line. Full-size IgG sequence derived from rabbit B cells.

Immunogen:

Free human cTnI for RecChim16A11, RecChim19C7

Free human cTnI, native human cTn complex and human cTnI peptides for Y302, Y303, Y306, Y309, Y501, Y502, Y503, Y504, Y505, Y601, Y603

Human cTnI, native human cTn complex and cTnI peptides for RecR1, RecR23, RecR33, RecR85

Native human cTn complex for RC560

Specificity:

Human cardiac troponin I

Epitope specificity:

| MAb | Epitope (a.a.r.) |
|-------------------------------|------------------|
| Y306, Y503 | 22 – 40 |
| RecR1, RecR23, RecR33, RecR85 | 24 – 40 |
| Y303 | 28 – 34 |
| Y309 | 39 – 54 |
| RecChim19C7 | 41 – 49 |
| Y302 | 83 – 100 |
| RC560 | 83 – 93 |
| RecChim16A11 | 86 – 90 |
| Y501, Y504 | 161 – 178 |
| Y502, Y505 | 174 – 191 |
| Y601, Y603 | 182 – 192 |

MAbs are not cross-reacting with skeletal muscle TnI.

Isotypes:

IgG for Y302, Y303, Y306, Y309, RecR1, RecR23, RecR33, RecR85

IgG1 for Y501, Y502, Y503, Y504, Y505, Y601, Y603, RecChim16A11, RecChim19C7, RC560

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Applications: Human cardiac troponin I sandwich immunoassays. Recommended pairs for different platforms:

| Capture | Detection | Platform |
|----------------|---------------------|---|
| Y302 + 20C6cc | RecR85 + 7B9cc | Lateral Flow (LF) |
| RecR85 + 560cc | Y505 + RecChim20C6 | Chemiluminescent immunoassay (CLIA) |
| RecR33 + 560cc | Y505 + RecChim20C6 | |
| RecR85 + 560cc | 7B9cc + RecChim20C6 | |
| 19C7cc | RecChim16A11 | Dissociation-enhanced lanthanide fluorescence immunoassay (DELFI [®]) |
| RecChim19C7 | RecChim16A11 | |
| 4C2cc | RecChim19C7 | |
| 4C2cc | RecChim16A11 | |
| 625 | RecChim19C7 | |

MAb 20C6cc: Cat.# 4TC2
 MAb RecChim20C6: Cat.# RC4TC2
 MAb 7B9cc: Cat.# 4T27cc
 MAbs 560cc, 19C7cc, 4C2cc: Cat.# 4T21cc
 MAb 625: Cat.# 4T21

Purification: Protein A chromatography for Y302, Y303, Y306, Y309, Y501, Y502, Y503, Y504, Y505, Y601, Y603, RecChim16A11, RecChim19C7, RecR1, RC560

Protein A chromatography and gel-filtration for RecR23, RecR33, RecR85

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 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.