

# CARDIAC TROPONIN I

|                     |                          |
|---------------------|--------------------------|
| <b>Specificity</b>  | Human Cardiac Troponin I |
| <b>Host Species</b> | Mouse                    |

**RECOMMENDED ANTIBODY:**

MAB283P

|                      |   |
|----------------------|---|
| <b>Application</b>   | ELISA, Bead-based ELISA, lateral flow   |
| <b>Target Marker</b> | Cardiac Troponin I (cTnI) is a standard test for the diagnosis of acute myocardial infarction. It also plays key roles in the risk assessment of patients presenting with cardiac symptoms. More recently, high sensitivity cardiac troponin assays have become an accepted assessment for early rule-out of acute coronary syndrome (ACS). |
| <b>References</b>    | Cardiac Troponin Assays: Guide to Understanding Analytical Characteristics and Their Impact on Clinical Care. Fred S. Apple, Yader Sandoval, Allan S. Jaffe, Jordi Ordonez-Llanos Clinical Chemistry Jan 2017, 63 (1) 73-81; DOI: 10.1373/clinchem.2016.255109  |

## WHY CHOOSE BBI'S ANTIBODIES?

- + Proven performance – the antibody clone is used in commercialised bioMerieux assays
- + Manufactured in-house at BBI for security of supply
- + cGMP production and quality management for increased batch-to-batch consistency
- + Suite of reagents for your troponin assay needs

Order your evaluation sample today [www.bbisolutions.com](http://www.bbisolutions.com)

**Characterisation**

**MAB283P Tested as a Detector Antibody in Sensitive Bead-Based ELISA Platform**

| Beads (Captures) = MAB1* & MAB2*<br>Detector = MAB283P (clone 3D5F7) |           |          |
|--|-----------|----------|
| Calibrators:   | cTn I-T-C | Rec cTnI |
| Conc. (pg/mL)  | Mean AEB  | Mean AEB |
| 0.0  | 0.014     | 0.015    |
| 0.3  | 0.054     | 0.046    |
| 1.1  | 0.136     | 0.127    |
| 3.8  | 0.396     | 0.410    |
| 13.3   | 1.467     | 1.579    |
| 46.5   | 5.239     | 4.973    |
| 162.9  | 15.837    | 14.819   |

MAB1\* & MAB2\* were coated on beads and MAB283P (clone 3D5F7) used to detect cardiac Troponin I either in a complex form or as a purified recombinant protein (BBI code P725-3).

\*MAB1 & MAB2 correspond to antibodies with epitopes targeting aa 24-40 and 41-49 of cTnI.

Data provided by BioCheck, Inc, and generated using Simoa HD-1 Analyser.

**Use in assays**

+ Antibody clone (3D5F7) has been successfully used in commercialised bioMérieux immunoassay products\* as the detector antibody

+ Epitope: cTnI amino acids 87-95

\* VIDAS® and/or VIKIA® and/or BIONEXIA®

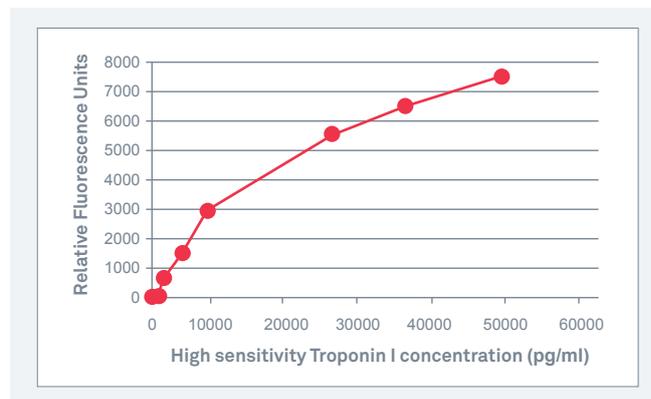


Figure 2: An optimised Fluorescence Immunoassay standard curve showing high sensitivity and prepared using cardiac TnI antibody clone as a detector antibody in conjunction with other antibodies.

Note:

Customers have seen excellent results pairing MAB283P with capture antibodies targeting epitopes aa 24-40 and/or 41-49.

**Pack sizes**

1mg, bulk amounts available on request.

**ORDERING DETAILS - USE THE FOLLOWING CODES WHEN ORDERING**

| Product                                | Code       | Description   |
|--|------------|---|
| Cardiac Troponin I Monoclonal Antibody | MAB283P    | Detector antibody for the detection of cardiac troponin I. Epitope = aa 87-95 of troponin I |
| Cardiac Troponin I Monoclonal Antibody | BM322-M4E5 | Epitope = aa 167-182 of troponin I Suitable for lateral flow                                |

**Related products**

|                    |        |  |
|--------------------|--------|--|
| Troponin Complex   | P184-4 | Native troponin I, C, T complex purified from human heart tissue |
| Troponin I Antigen | P725-3 | Recombinant troponin I expressed in and purified from E.coli     |
| Troponin C Antigen | P723-3 | Recombinant troponin C expressed in and purified from E.coli     |
| Troponin T Antigen | P724-3 | Recombinant troponin T expressed in and purified from E.coli     |

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