

Version 1.0

Update: 04/02/2019

## Cardiac troponin I (cTnI) Monoclonal Antibodies

Cat. No.	Name	Clone
V00301	Cardiac troponin I (cTnI) Antibody (5C7), mAb, Mouse	5C7
V00302	Cardiac troponin I (cTnI) Antibody (6D11), mAb, Mouse	6D11
V00303	Cardiac troponin I (cTnI) Antibody (32CD), mAb, Mouse	32CD
V00304	Cardiac troponin I (cTnI) Antibody (31D), mAb, Mouse	31D
V00306	Cardiac troponin I (cTnI) Antibody (5C7HC)	5C7HC
V00308	Cardiac troponin I (cTnI) Antibody (24E40HC)	24E40HC

  

Epitope	Clone	Epitope
	24E40HC	24-40 within cTnI protein
	5C7HC	40-50 within cTnI protein
	5C7	40-50 within cTnI protein
	6D11	80-90 within cTnI protein
	32CD	80-95 within cTnI protein
	31D	185-196 within cTnI protein

  

<b>Specificity</b>	Human cTnI.  No cross-reactivity with human cTnT
<b>Isotype</b>	Mouse IgG1 for Mabs 6D11, 32CD and 31D  Mouse IgG2b for Mab 5C7  Recombinant human IgG1 for 5C7HC and 24E40HC.
<b>Production</b>	Cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Purification</b>	Protein A/G affinity column

**Formulation**

1) PBS, pH 7.4, containing 0.03% Proclin 300

2) 50 mM Na-citrate, 150 mM NaCl, pH 6.0, containing 0.03% Proclin 300 \*

3) 50 mM Na-citrate, 150 mM NaCl, pH 7.0, containing 0.03% Proclin 300 \*

\*: For new batch since 09/01/2018, please refer to COA.

**Storage** For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Application	Platform	Capture	Detection
		32CD	5C7
		32CD+6D11	5C7
	<b>ELISA</b>	(mixture for coating)	
		31D	32CD
		5C7	6D11
	<b>CLIA</b>	24E40HC	5C7HC
		32CD+6D11	5C7HC
	<b>TRFIA</b>	24E40HC	5C7HC

**Background** Cardiac Troponin I (cTnI) is synthesized in cardiac muscle and forms a structural complex with Troponin T and C. Its concentration in blood increases after the onset of chest pain and maintains peak for a couple of weeks. The cTnI protein is considered as useful diagnosis marker for acute myocardial infarction (AMI).

Product stability	Temperature, Time	Result for clones			
		5C7	6D11	31D	32CD
	-80°C, 21 days				OK
	-20°C, 21 days				OK
	4°C, 21 days				OK
	20°C, 21 days				OK
	37°C, 21 days				OK
	40°C, 21 days				OK

**Note**

GenScript can customize this product per customer's request including product size, buffer components, etc.

*For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.*