Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Rabbit anti-Human cTnI mAb

Catalog No.: RM17654

Basic Information

Catalog No.
RM17654

Catagory
Elisa Antibody Kit

Application
ELISA,Multiplex

Product Information

Ig Type
Rabbit IgG

Purification
Affinity purification

Endotoxin Level
/

Storage
(-80□)□-20□□
Avoid repeated freeze-thaw cycles.

Formulation
Supplied as a 0.2 μm filtered solution in PBS with 0.05% Proclin 300, pH 7.3.

Contact

order@abclonal.com

support@abclonal.com

www.abclonal.com

Background

Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). Troponin I is useful in making a diagnosis of heart failure, and of ischemic heart disease. An elevated level of troponin is also now used as indicator of acute myocardial injury in patients hospitalized with moderate/severe Coronavirus Disease 2019 (COVID-19). Such elevation has also been associated with higher risk of mortality in cardiovascular disease patients hospitalized due to COVID-19.

Immunogen Information

Immunogen
Nature Human cTnI Protein

Cross-Reactivity

No cross-reactivity in Sandwich Immunoassay assay with analogues.

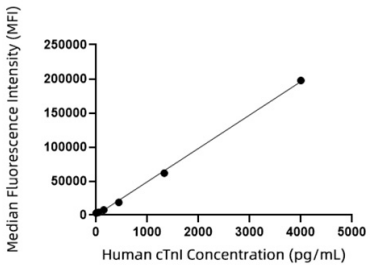
Assay Applications

Human cTnI Sandwich Immunoassay

		Recommended Concentration	Sample
ELISA	Capture	1-4 μg/mL	Rabbit anti-Human cTnI mAb (Cat. No. RM17655)
	Detection	0.03-0.1 μg/mL	Rabbit anti-Human cTnI mAb (Cat. No. RM17654)
	Standard	78-5000 pg/mL	Nature Human cTnI Protein

Multiplex	Capture	1.2-4.8 μg/mL	Rabbit anti-Human cTnI mAb (Cat. No. RM17653)
	Detection	0.25-1 μg/ml	Rabbit anti-Human cTnI mAb (Cat. No. RM17654)
	Standard	5.5-4000 pg/mL	Nature Human cTnI Protein

Validation Data



This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.