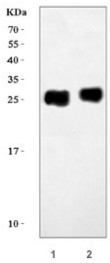
Troponin I Antibody / TNNI3 (RQ7308)

Catalog No.	Formulation	Size
RQ7308	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P19429
Applications	Western blot: 0.5-1ug/ml
Limitations	This Troponin I antibody is available for research use only.



Western blot testing of 1) rat heart and 2) mouse heart tissue lysate with Troponin I antibody. Expected molecular weight: 24-28 kDa.

Description

Troponin I, cardiac muscle is a protein that in humans is encoded by the TNNI3 gene. 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.

Application Notes

Optimal dilution of the Troponin I antibody should be determined by the researcher.

Immunogen

Amino acids MMQALLGARAKESLDLRAHLKQ were used as the immunogen for the Troponin I antibody.

Storage

After reconstitution, the Troponin I antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.