



YN3665

TNNC1 rabbit pAb

Catalog No	YP-Ab-08507
Isotype	IgG
Reactivity	Human; Mouse
Applications	WB
Gene Name	TNNC1 TNNC
Immunogen	Synthesized peptide derived from human TNNC1 AA range: 57-107
Specificity	This antibody detects endogenous levels of TNNC1 at Human/Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TN C;TNC;TN-C;TNNC;Troponin C;TNNC1;TNNC1 TNNC
Observed Band	
Calculated Molecular Weight	
Cell Pathway	nucleoplasm,mitochondrion,cytosol,troponin complex,actin cytoskeleton, contractile fiber,
Tissue Specificity	
Function	disease:Defects in TNNC1 are the cause of cardiomyopathy dilated type 1Z (CMD1Z) [MIM:611879]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.,function:Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments.,miscellaneous:Cardiac



muscle Tn-C can bind 3 calcium ions per molecule. Domain I does not bind calcium.,similarity:Belongs to the troponin C family.,similarity:Contains 4 EF-hand domains.,

Background

Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z. [provided by RefSeq, Oct 2008],

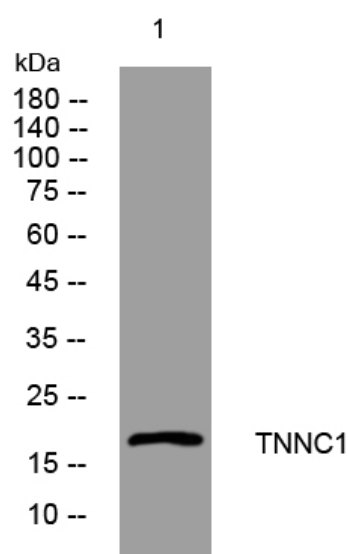
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from PC-12 cells, primary antibody was diluted at 1:1000, 4° over night