

## Troponin I-C Polyclonal Antibody

<b>Catalog No :</b>	YT4747
<b>Reactivity :</b>	Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Troponin I-C
<b>Gene Name :</b>	TNNI3
<b>Protein Name :</b>	Troponin I cardiac muscle
<b>Human Swiss Prot No :</b>	P19429
<b>Mouse Gene Id :</b>	21954
<b>Rat Gene Id :</b>	29248
<b>Rat Swiss Prot No :</b>	P23693
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from mouse TNNI3. AA range:5-54
<b>Specificity :</b>	Troponin I-C Polyclonal Antibody detects endogenous levels of Troponin I-C protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 28kD

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**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: tnl-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).

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