

---

**Product Name: Troponin I-C Rabbit Polyclonal Antibody****Catalog #: APRab19303**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
<b>Molecular Weight</b>	28kDa

**Antigen Information**

<b>Gene Name</b>	TNNI3
<b>Alternative Names</b>	TNNI3; TNNC1; Troponin I; cardiac muscle; Cardiac troponin I
<b>Gene ID</b>	29248.0
<b>SwissProt ID</b>	P23693
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from mouse TNNI3. AA range:5-54

**Background**

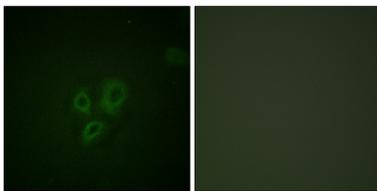
Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the

thin filaments of striated muscle. Tnl is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The Tnl subfamily contains three genes: tnl-skeletal-fast-twitch, Tnl-skeletal-slow-twitch, and Tnl-cardiac. This gene encodes the Tnl-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).

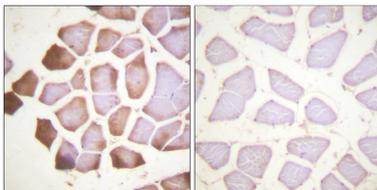
## Research Area

Signal Transduction

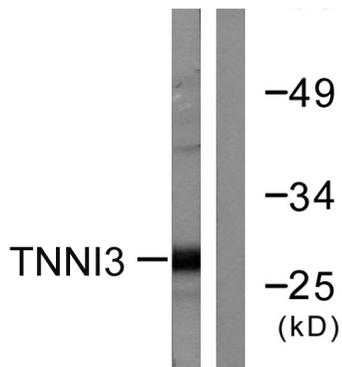
## Image Data



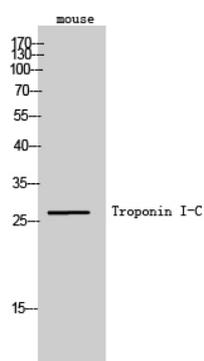
Immunofluorescence analysis of HepG2 cells, using TNNI3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using TNNI3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from mouse heart cells, using TNNI3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of mouse cells using Troponin I-C Polyclonal Antibody. Secondary antibody was diluted at 1:20000