

**Phospho-Ser150 Troponin I (cardiac) Antibody**  
Affinity purified rabbit polyclonal antibody  
Catalog # AN1227**Specification**

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**Phospho-Ser150 Troponin I (cardiac) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P48787</a>
Reactivity	Mouse, Rat
Predicted	Human, Monkey
Host	Rabbit
Clonality	polyclonal
Calculated MW	25 KDa

**Phospho-Ser150 Troponin I (cardiac) Antibody - Additional Information**

Gene ID	21954
Gene Name	TNNI3

**Other Names**

Troponin I, cardiac muscle, Cardiac troponin I, Tnni3

**Target/Specificity**

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser150 conjugated to KLH.

**Dilution**

WB~~ 1:1000

**Format**

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephospho-peptide affinity columns.

**Antibody Specificity**

Specific for the ~25k cardiac troponin I protein phosphorylated at Ser150. Immunolabeling is greatly decreased with lambda-phosphatase treatment.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Phospho-Ser150 Troponin I (cardiac) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

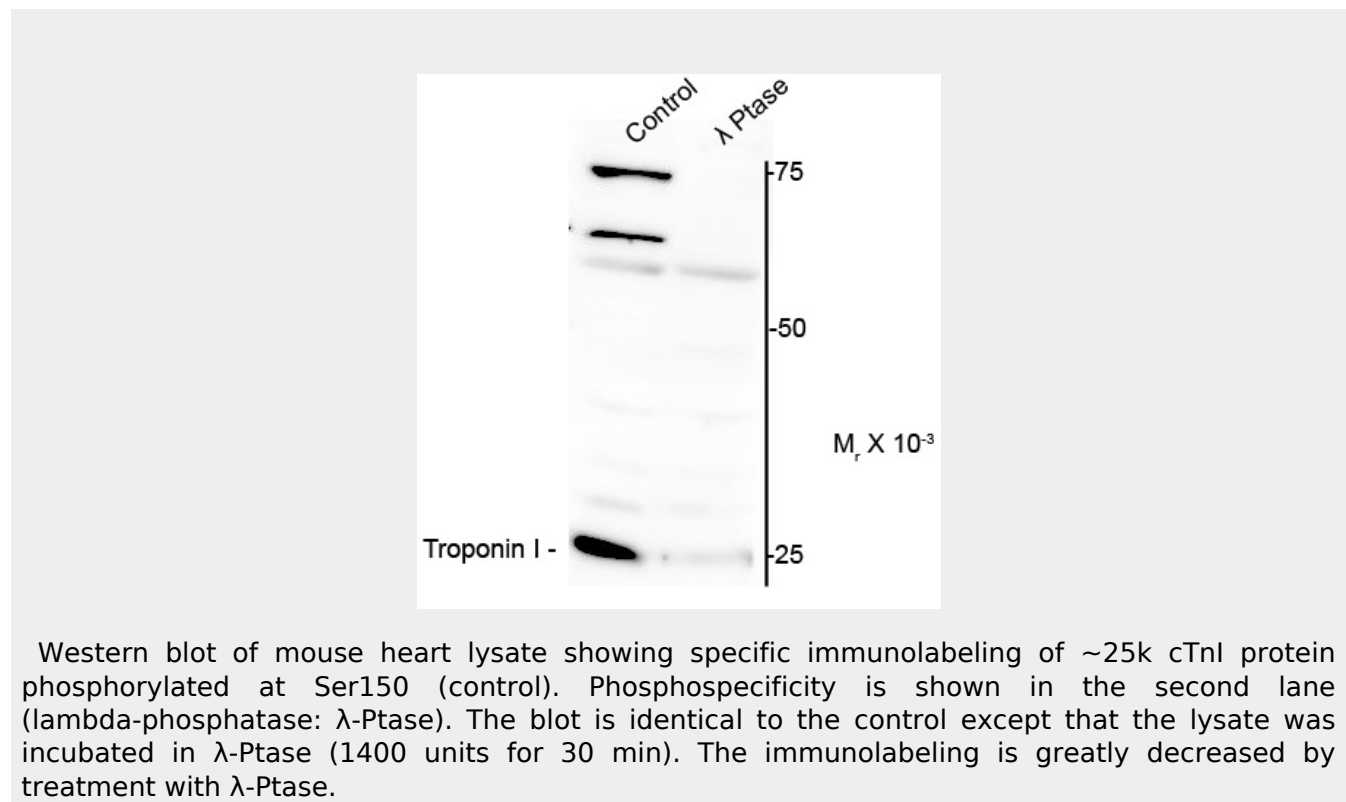
Blue Ice

**Phospho-Ser150 Troponin I (cardiac) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Phospho-Ser150 Troponin I (cardiac) Antibody - Images



### Phospho-Ser150 Troponin I (cardiac) Antibody - Background

Troponin I (TnI) is 1 of 3 subunits, along with troponin C (TnC) and Troponin T (TnT) of troponin complex found in cardiac (cTnI) and fast skeletal (fsTnI) muscle. cTnI is phosphorylated by protein kinase C and protein kinase A at Ser23/24 (Noland et al, 1995) and is phosphorylated by AMPK at Ser23 and Ser150 (Solis et al, 2011). Evidence suggests that AMPK, a critical regulator of cardiac energetics, prefers phosphorylating Ser150 over Ser23, and may play a role in regulating energy consumption through altering the phosphorylation status of cTnI (Solis et al., 2011).

### Phospho-Ser150 Troponin I (cardiac) Antibody - References

Raquel Sancho Solis, Ying Ge, Jeffery W. Wlaker. (2011) A Preferred AMPK phosphorylation site adjacent to the inhibitory loop of cardiac and skeletal Troponin I.  
Thomas A. Noland, Jr., Xiaodu Guo, Robert L. Raynor, Nathan M. Jideama, Vera Averyhart-Fullard, R. John Solaro, and J.F. Kuo (1995) Cardiac Troponin I Mutants. *J of Biol Chem* 270 (43): 25445-25454.