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Phospho-Ser150 Troponin I (cardiac) Antibody

Affinity purified rabbit polyclonal antibody
Catalog # AN1227

Specification

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

Application	**WB**
Primary Accession	P48787
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

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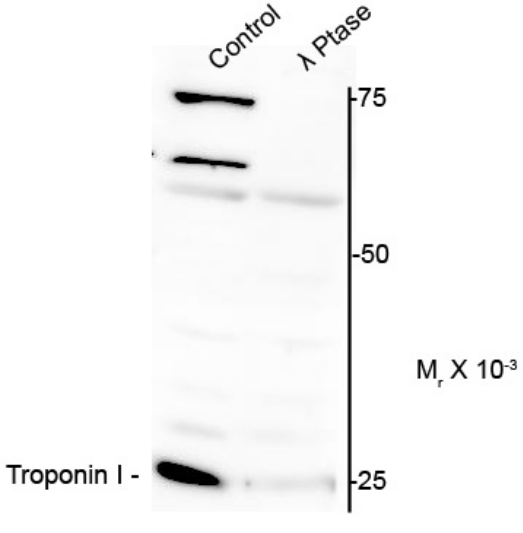
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Ser150 Troponin I (cardiac) Antibody - Images



Western blot of mouse heart lysate showing specific immunolabeling of ~25k cTnI protein phosphorylated at Ser150 (control). Phosphospecificity is shown in the second lane (lambda-phosphatase: λ-Ptase). The blot is identical to the control except that the lysate was incubated in λ-Ptase (1400 units for 30 min). The immunolabeling is greatly decreased by treatment with λ-Ptase.

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.