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Datasheet for 600-401-X33

Troponin I (cardiac) Phospho S150 Antibody

Overview

Description:	Anti-Troponin I (cardiac) pS150 (RABBIT) Antibody - 600-401-X33
Item No.:	600-401-X33
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

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 and is phosphorylated by AMPK at Ser23 and Ser150. 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. Troponin I pS150 Antibody is ideal for researchers interested in cancer research.
Synonyms:	Troponin I cardiac muscle, Cardiac troponin I
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Tnni3
Reactivity:	Mouse, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Phospho-Ser150 Troponin (cardiac) Antibody was produced in rabbits by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Ser150 pf cardiac troponin I conjugated to KLH.
Purity/Specificity:	Anti-Phospho-Ser150 Troponin (cardiac) Antibody is directed against Troponin protein phosphorylated at S150. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. This antibody is specific for phosphorylated Troponin. Minimal reactivity occurs against non-phosphorylated Troponin. Reactivity against Troponin occurs from mouse sources. However, reactivity is also expected against human and non-human primate based on 100% sequence homology.
Relevant Links:	• UniProtKB - P48787 • GeneID - 21954 • NCBI - NP_033432.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Phospho-Ser150 Troponin (cardiac) Antibody has been tested in Western Blots and is specific for the ~25 kDa cardiac troponin I protein phosphorylated at Ser 150. Immunolabeling is greatly decreased with lambda-phosphatase treatment. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

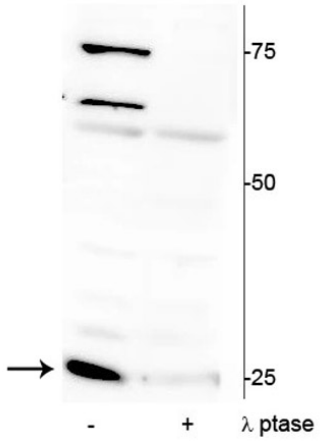
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot of Anti-Troponin I (cardiac) pS150 Antibody. Mouse heart lysate showing specific immunolabeling of ~25 kDa cardiac troponin I protein phosphorylated at Ser150 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely greatly decreased by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 minutes).

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