

Datasheet for 600-401-X34**Troponin I (Cardiac) Phospho S43 Antibody****Overview**

Description:	Anti-Troponin I (cardiac) pS43 (RABBIT) Antibody - 600-401-X34
Item No.:	600-401-X34
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. Protein kinase C-mediated phosphorylation of cardiac myofilament proteins has been shown to depress the actomyosin interaction and may be important during heart failure. Studies indicate that phosphorylation of Ser43 and Ser45 of cardiac troponin I plays a substantial role in the PKC-mediated depression. Troponin I pS43 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-Ser43 Troponin (cardiac) Antibody was produced in rabbits by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Ser43 of mouse cardiac troponin I conjugated to KLH.

Purity/Specificity:	Anti-Phospho-Ser43 Troponin (cardiac) Antibody is directed against Troponin protein phosphorylated at S43. 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 bovine, canine, human, non-human primate, sheep, Xenopus, and zebrafish based on 100% sequence homology.
Relevant Links:	• UniProtKB - P48787 • GeneID - 21954 • NCBI - NP_033432.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Phospho-Ser43 Troponin (cardiac) Antibody has been tested by Western Blots and is specific for the ~25 kDa cardiac troponin I protein phosphorylated at Ser 43. 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

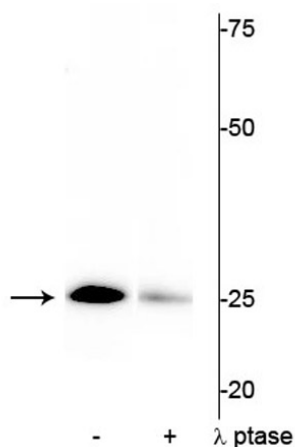
Physical State:	Liquid (sterile filtered)
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
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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) pS43 Antibody. Mouse heart lysate showing specific immunolabeling of the ~25 kDa cardiac troponin I protein phosphorylated at Ser43 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is greatly decreased by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 minutes).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.