

Datasheet for 009-001-U22S**Troponin1 protein-HIS Epitope****Overview**

Description:	Troponin1 recombinant protein-HIS Epitope - 009-001-U22S
Item No.:	009-001-U22S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Troponin1 is a member of the tropomyosin family and regulates the calcium sensitivity of the myofibril contractile apparatus of striated muscles. Troponin1 is part of a complex with troponin T and troponin C in which Troponin1 acts as an inhibitory subunit that blocks actin-myosin interactions and thereby mediates striated muscle relaxation (1). Troponin1 is expressed in cardiac and skeletal muscle during early development but is restricted to slow-twitch skeletal muscle fibers in adults. The Troponin1 protein prevents muscle contraction by inhibiting calcium-mediated conformational changes in actin-myosin complexes (2). Troponin1 Protein is ideal for investigators involved in Signaling Proteins, Microtubule/Actin Associated Proteins, and Cardiovascular Disease research.
Synonyms:	TNNI1, DKFZp451O223, SSTNI, TNN1, Troponin I, slow skeletal muscle, Troponin I, slow-twitch isoform
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	TNNI1
Purity/Specificity:	Recombinant full-length human Troponin1 protein was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >75% by densitometry.
Relevant Links:	<ul style="list-style-type: none">• NCBI - NM_003281

Application Details

Application Note:	Troponin1 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. Troponin1 Protein is suitable for use in Western Blot. Expect a band approximately ~24kDa on specific lysates or tissues. 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.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

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.

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