

Datasheet for 600-401-FU9**Unc93b Antibody****Overview**

Description:	Anti-Unc93b (RABBIT) Antibody - 600-401-FU9
Item No.:	600-401-FU9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The endoplasmic reticulum (ER) protein Unc93b, a human homolog of the <i>C. elegans</i> Unc93 gene, was initially identified by a forward genetic screen using N-ethyl-N-nitrosourea where a histidine-to-arginine substitution in Unc93b caused defects in Toll-like receptor (TLR) 3, 7 and 9 signaling. Unlike Unc93a, another homolog of the <i>C. elegans</i> Unc93 gene whose function is unknown, Unc93b specifically interacts with TLR3, 7 and 9; the histidine-to-arginine point mutation used to identify Unc93b abolishes this interaction. Mice carrying this point mutation are highly susceptible to infection with a number of viruses, indicating that Unc93b plays an important role in innate immunity.
Synonyms:	Unc93b Antibody, IIAE1, UNC93, UNC93B, Unc-93B1, Protein unc-93 homolog B1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	UNC93B1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Unc93b antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide from near the N-terminus of human Unc93b.

Purity/Specificity:	Anti-Unc93b Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Multiple isoforms of Unc93a are known to exist. This antibody will not cross-react with Unc93a.
Relevant Links:	• UniProtKB - Q9H1C4 • GeneID - 81622 • NCBI - NP_112192.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Unc93b Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 67 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	0.5-1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

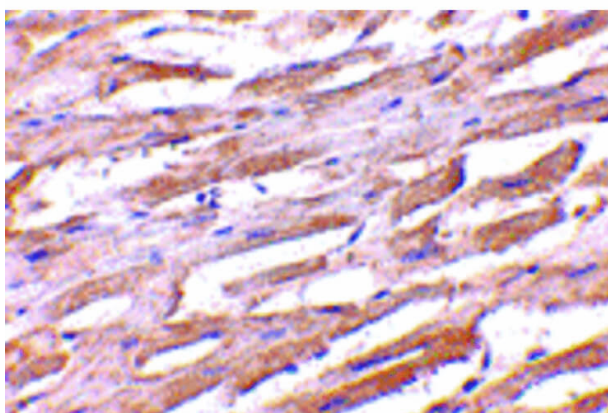
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. 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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

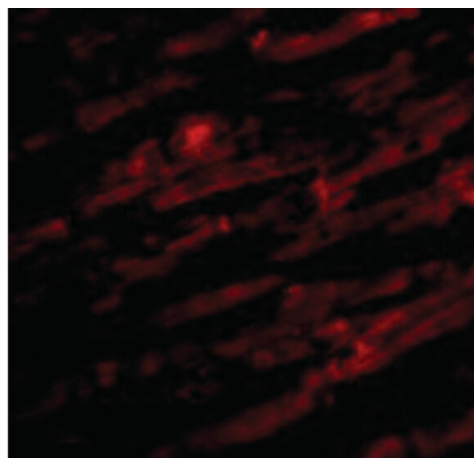
Expiration: Expiration date is one (1) year from date of receipt.

Images



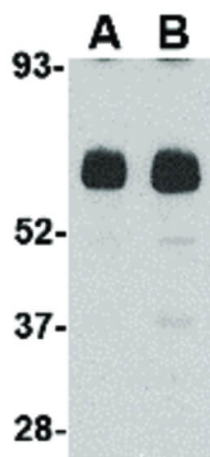
Immunohistochemistry

Immunohistochemistry of Unc93b antibody. Tissue: Human heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Unc93b antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Unc93b is nuclear and occasionally cytoplasmic. Staining: Unc93b as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Unc93b antibody. Tissue: Human heart cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Unc93b antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Unc93b as red fluorescent signal.

**Western Blot**

Western Blot of Unc93b antibody. Lane A: Human heart tissue lysate at 0.5 $\mu\text{g/mL}$. Lane B: Human heart tissue lysate at 1 $\mu\text{g/mL}$. Load: 35 μg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 27.9 kDa, ~60 kDa for Unc93b.

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.