

Datasheet for 600-401-EU0**SPRYD2 Antibody****Overview**

Description:	Anti-SPRYD2 (RABBIT) Antibody - 600-401-EU0
Item No.:	600-401-EU0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SPRYD2, also known as Myospryn, was originally identified as the muscle-specific partner of dysbindin and as a Mef-2 target gene. It is a large scaffolding protein localized to the Z-disc/costamere region of striated muscle. SPRYD2 includes a noncanonical tripartite motif (TRIM-like) that lacks the RING domain but consists of a B-box coiled coil (BBC), fibronectin 3 (FN3) repeats, and SPRY domains. SPRYD2 interacts with desmin and calcineurin, and it has been suggested to play a role in the biogenesis of lysosome and negatively regulates slow-fiber-type transformation and skeletal muscle regeneration. SPRYD2 is dysregulated in Duchenne muscular dystrophy.
Synonyms:	SPRYD2 Antibody, TRIM76, C5orf10, DTNBP2, CMYA5, Cardiomyopathy-associated protein 5, Dystrobrevin-binding protein 2, Genethonin-3, Myospryn, SPRY domain-containing protein 2, Tripartite motif-containing protein 76
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CMYA5
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-SPRYD2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human SPRYD2.
Purity/Specificity:	Anti-SPRYD2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. SPRYD2 antibody is predicted to not cross-react with other SPRYD protein family members. At least four isoforms of SPRYD2 are known to exist.
Relevant Links:	• UniProtKB - Q8N3K9 • GeneID - 202333 • NCBI - NP_705838.3

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SPRYD2 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 450 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:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 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

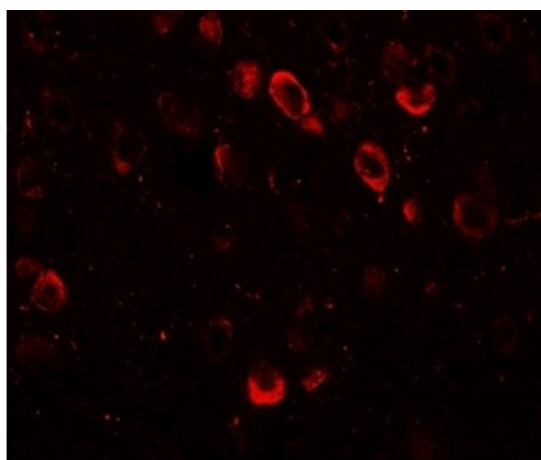
Shipping & Handling

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.

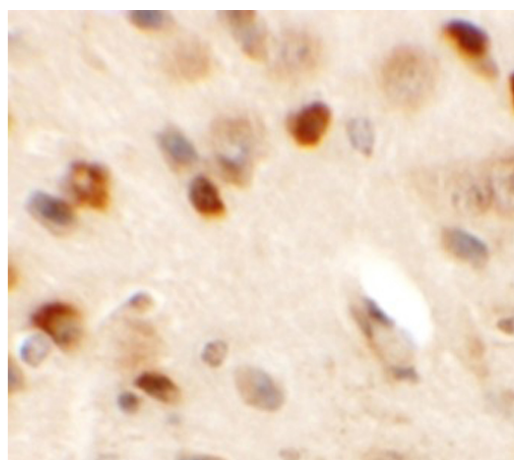
Expiration: Expiration date is one (1) year from date of receipt.

Images



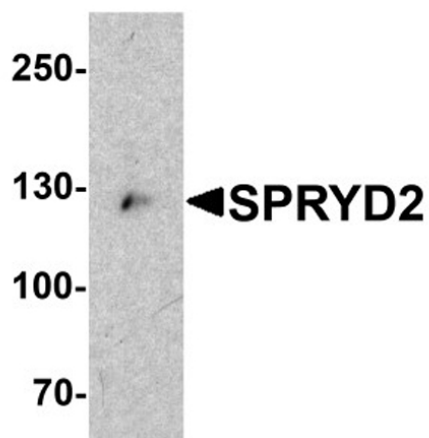
Immunofluorescence Microscopy

Immunofluorescence of SPRYD2. Tissue: mouse brain tissue.
Primary Antibody: SPRYD2 antibody at 20 µg/mL.



Immunohistochemistry

Immunohistochemistry of SPRYD2. Tissue: mouse brain tissue. Primary Antibody: SPRYD2 antibody at 2.5 µg/mL.

**Western Blot**

Western blot analysis of SPRYD2.

Tissue: mouse heart tissue lysate.

Primary Antibody: SPRYD2 antibody at 1 µg/mL.

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.