

Datasheet for 600-401-ET7**Spred1 Antibody****Overview**

Description:	Anti-Spred1 (RABBIT) Antibody - 600-401-ET7
Item No.:	600-401-ET7
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The Ras-MAP kinase pathway is essential for the differentiation of neuronal cells and myocytes; it is inhibited by Spred1, a member of the Sprouty family of proteins. Spred1 acts by suppressing the phosphorylation and activation of Raf. The Spred proteins have also been implicated in the negative feedback regulation of FGF signaling in embryogenesis and angiogenesis. Further studies have shown that expression levels of Spred1 and Spred2 proteins are inversely correlated with the incidence of tumor invasion and metastasis in human hepatocellular carcinoma (HCC), suggesting that these proteins could be useful as prognostic factors and therapeutic targets in HCC. Defects in this gene are a cause of neurofibromatosis type 1-like syndrome (NFLS). This Spred1 antibody is predicted to have no cross-reactivity to Spred2 or Spred3.
Synonyms:	Spred1 Antibody, NFLS, hSpred1, spred-1, Sprouty-related, EVH1 domain-containing protein 1, Spred-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SPRED1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Spred1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 20 amino acid synthetic peptide near the internal region of the human Spred1.
Purity/Specificity:	Anti-Spred1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Spred1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q7Z699 • GeneID - 161742 • NCBI - NP_689807.1

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-Spred1 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 50 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
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

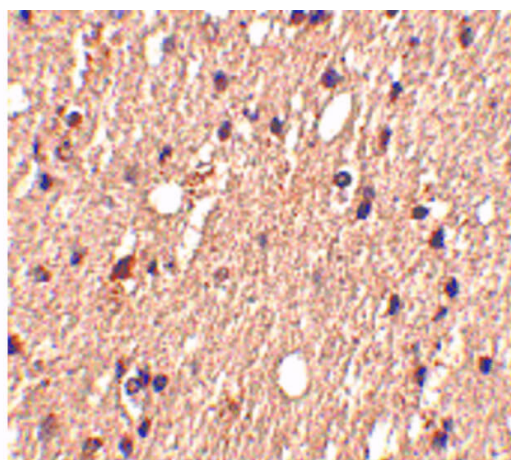
Shipping & Handling

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.

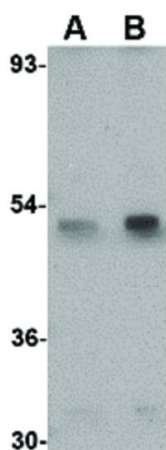
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Spred1 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Spred1 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: Spred1 is nuclear and occasionally cytoplasmic. Staining: Spred1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Spred1 antibody. Lane A: Mouse brain tissue lysate at 1 µg/mL. Lane B: Mouse brain tissue lysate at 2 µg/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: 9.29 kDa, ~50 kDa for Spred1.

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.