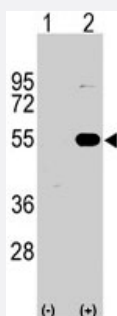


# SPRED1 polyclonal antibody

Catalog # PAB3102

Size 400 uL

## Applications



### Western Blot (Transfected lysate)

Western blot analysis of SPRED1 (arrow) using rabbit SPRED1 polyclonal antibody (Cat # PAB3102). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SPRED1 gene (Lane 2) (Origene Technologies).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human brain tissue reacted with SPRED1 polyclonal antibody (Cat # PAB3102), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of SPRED1.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human SPRED1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A purification

<b>Recommend Usage</b>	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

Western blot analysis of SPRED1 (arrow) using rabbit SPRED1 polyclonal antibody (Cat # PAB3102). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SPRED1 gene (Lane 2) (Origene Technologies).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human brain tissue reacted with SPRED1 polyclonal antibody (Cat # PAB3102), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Gene Info — SPRED1

<b>Entrez GeneID</b>	<a href="#">161742</a>
<b>Protein Accession#</b>	<a href="#">NP_689807;Q7Z699</a>
<b>Gene Name</b>	SPRED1
<b>Gene Alias</b>	FLJ33903, NFLS
<b>Gene Description</b>	sprouty-related, EVH1 domain containing 1
<b>Omim ID</b>	<a href="#">609291 611431</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	The protein encoded by this gene is a member of the Sprouty family of proteins and is phosphorylated by tyrosine kinase in response to several growth factors. The encoded protein can act as a homodimer or as a heterodimer with SPRED2 to regulate activation of the MAP kinase cascade. Defects in this gene are a cause of neurofibromatosis type 1-like syndrome (NFLS). [provided by RefSeq]

**Other Designations**

EVH1/Sprouty domain containing protein|sprouty-related protein 1 with EVH-1 domain|suppressor of Ras/MAPK activation

**Publication Reference**

- [Germline loss-of-function mutations in SPRED1 cause a neurofibromatosis 1-like phenotype.](#)

Brems H, Chmara M, Sahbatou M, Denayer E, Taniguchi K, Kato R, Somers R, Messiaen L, De Schepper S, Fryns JP, Cools J, Marynen P, Thomas G, Yoshimura A, Legius E.

Nature Genetics 2007 Sep; 39(9):1120.

Application: WB-Ce, Mouse, MEFs

- [Violating the splicing rules: TG dinucleotides function as alternative 3' splice sites in U2-dependent introns.](#)

Szafranski K, Schindler S, Taudien S, Hiller M, Huse K, Jahn N, Schreiber S, Backofen R, Platzer M.

Genome Biology 2007 Jan; 8(8):R154.

- [Spreds, inhibitors of the Ras/ERK signal transduction, are dysregulated in human hepatocellular carcinoma and linked to the malignant phenotype of tumors.](#)

Yoshida T, Hisamoto T, Akiba J, Koga H, Nakamura K, Tokunaga Y, Hanada S, Kumemura H, Maeyama M, Harada M, Ogata H, Yano H, Kojiro M, Ueno T, Yoshimura A, Sata M.

Oncogene 2006 May; 25(45):6056.

**Pathway**

- [Jak-STAT signaling pathway](#)

**Disease**

- [Cafe-au-Lait Spots](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Neurofibromatosis](#)
- [Neurofibromatosis 1](#)

- [Syndrome](#)