

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human SPRED1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SPRED1 Arg118-Lys324 Accession # Q7Z699
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

SPRED1 (Sprouty-related protein with an EVH1 domain-1) is a 55 kDa member of the SPRED family of regulatory molecules. It inhibits mitogenic signaling by blocking Ras activation of Raf, and disrupts actin stress fiber formation by binding TESK1. Human SPRED1 is 444 amino acids (aa) in length. It contains an N-terminal WH1/EVH1 domain that is involved in ERK inhibition (aa 6-123), a central KBD domain that binds to the SCFR (aa 233-285), and a C-terminal Cys-rich/Sprouty-related domain that mediates homo- and heterodimerization with SPRED2, binding to TESK1, and undergoes palmitoylation for membrane localization (aa 334-442). There is one splice variant that shows a nine Lys substitution for aa 269-444.

PRODUCT SPECIFIC NOTICES

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