Human SPRED1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5067

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human SPRED1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human SPRED1 Arg118-Lys324 Accession # Q7Z699
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

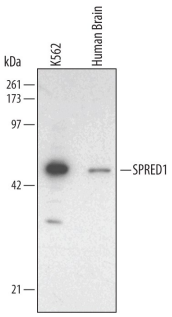
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human SPRED1 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and human brain tissue. PVDF membrane was probed with 1 µg/mL of Human SPRED1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5067) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SPRED1 at approximately 55 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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