Human SPRY1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6097

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SPRY1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human SPRY1 Met1-Lys178 Accession # O43609
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.

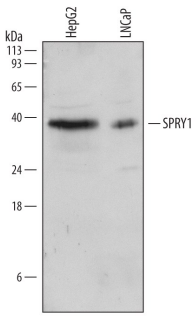
APPLICATIONS

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 SPRY1 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and LNCaP human prostate cancer cell line. PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Human SPRY1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6097) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SPRY1 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and 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

SPRY1 (sprouty homolog 1) is a 34-38 kDa member of the sprouty family of proteins. It is widely expressed, being found in multiple embryonic and adult tissues. SPRY1 is considered a negative regulator of cellular signaling. In particular, it appears to both inhibit MAP kinase signaling following RTK activation, and block TCR signaling following antigen activation. It interacts with a number of molecules, including PLC-γ1, LAT, CBL, caveolin-1 and SPRY2. Human SPRY1 is 319 amino acids (aa) in length. It contains one CBL-TKB binding site (aa 51-57) that is phosphorylated at Tyr53, a Ser-rich region (aa 112-131), and a Cys-rich domain (aa 181-306) that mediates intracellular translocation. SPRY1 undergoes serine phosphorylation, ubiquitination and palmitoylation, the latter which induces SPRY1 to associate with cell membranes. Over aa 1-178, human SPRY1 shares 76% aa identity with mouse SPRY1.

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