bio-techne®
R&D SYSTEMS

Human SPRY1 Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6097X
100 µg

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
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

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.

PRODUCT SPECIFIC NOTICES

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