

Human/Mouse SPRY2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6157

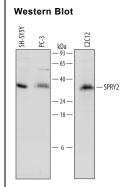
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human and mouse SPRY2 in Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human SPRY2 Met1-Ala175 Accession # O43597		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

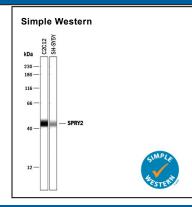
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Simple Western	50 μg/mL	See Below

DATA



Detection of Human and Mouse SPRY2 by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line, PC-3 human prostate cancer cell line, and C2C12 mouse myoblast cell line. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse SPRY2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6157) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SPRY2 at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human and Mouse SPRY2 by Simple Western TM. Simple Western lane view shows lysates of C2C12 mouse myoblast cell line and SH-SYSY human neuroblastoma cell line, loaded at 0.2 mg/mL. A specific band was detected for SPRY2 at approximately 45 kDa (as indicated) using 50 μg/mL of Goat Anti-Human/Mouse SPRY2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6157) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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

- 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

SPRY2 (sprouty homolog 2) is a 35 kDa member of the sprouty family of proteins. It is widely expressed in embryonic and adult tissues, including endothelium. SPRY2 is considered a negative regulator of Ras/ERK signaling. For example, it appears to form a trimeric complex with PKCδ and PKD1, blocking ERK phosphorylation. It also interacts with a number of other molecules, including CBL and SIAH2, which likely limit its availability. Human SPRY2 is 315 amino acids (aa) in length and contains one CBL-TKB binding site (aa 53-59) that is phosphorylated at Tyr55, a Ser-rich region (aa 125-131), a Cys-rich domain (aa 178-301) and a PxxPxR motif that mediates ERK inhibitory activity. Over aa 1-175, human SPRY2 shares 94% aa identity with mouse SPRY2.

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