

DESCRIPTION

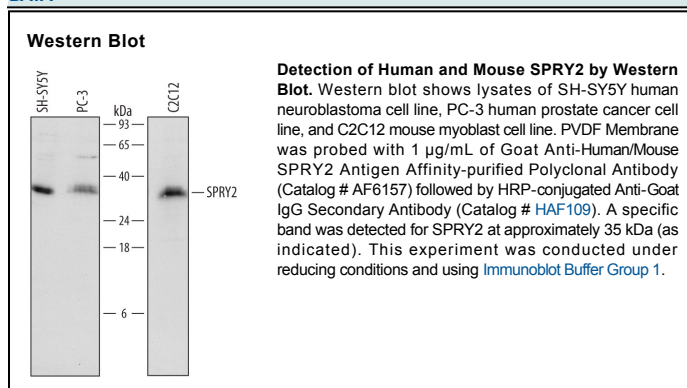
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse SPRY2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SPRY2 Met1-Ala175 Accession # O43597
Formulation	Lyophilized from a 0.2 µm filtered solution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



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. <ul style="list-style-type: none"> • 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 PKC δ 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.