

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
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

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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